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SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
23689	54057	A	23824	832	1885	AEWDAADKAHVGPGRSPRQPL PHVGRRRRAAHTTGRGRRTAGC APAPARTLCILSILGPWCVLPHL PTLCLGQAQAASCSQGAHGC AGCSCT/GTSASHPV/CCKCPLH PVCTLADVHGCITSGFSVISLPQ TCAPWTSWRKWSLSDSWQVD ACPESCEPPCCATSCCAPAPCL TLVCTPVSCVSSPCCQAACEPSP CQSGCTSSCTPSCCQSSCQPA CCTSSPCQACCVPVCCCKPVCC VPVCCCKPVCCCKPICCVPCSGA SSSCCQSSRQPACCTTSCCRPS SSVSLLCRPVCRSTCCVPIPSCC APASTCQPSCCRPASCVSLLCRP TCSRLSSACGLSSGQKSSC
23690	54058	A	23825	1	3097	MDEKRTRLQPEEADVPAYPKV ATVPQSEKKPSKYPLCSADAAV STTPPGSPPPPPPLPEPPVLKVLS SLKPAAPSPATAATTAATAA ASSTASSASKTASPLEHILQTLF GKKKSFDPSAREPPGSTAGLPQ EPKTTAEDGVPAPLLDPVQVF GQFSKDKALEEEEDDRPYDPEE EYDPERAFDTQLVERGRRHEVE RAPEAAAAREEEVAYDPEDETI LEEAKVTVDLDPNRMCAVRR NSVERPAEPVA
23691	54059	A	23826	67	442	VKFFCLYLQSNKPMKNFKQG SNNQLLMRSFWLLCGIDYKKPP PPPAPGPESVAPALSGPPPPAHS RGPRAVVRA\PPPPGPRHRSPAE PPPPPGTEPSVATYSIKASKRVS QQDRCHNLMKSQE
23692	54060	A	23827	3	657	GERSRRWGPACGPGAAEKTTP CDAGAAGAAPGAPGHAGNPGL GSGPDYD\GEATCMHLHPDDPC PAGAGCCPGSFEVAFPDAAEK MKKSLHSLKKGCYSRVCDLPL DCPGCDSDSGRQAMFSCIVNFQ LPKEESPIPGSSQEESGSPSHSEC DSVGVDWRGQRVSRKLQAPNH SLVLLVTSLFQETTKSHLNRTN DAVSPRKFKRLGALYWGKVEA
23693	54061	A	23828	141	246	
23694	54062	A	23829	1	609	
23695	54063	A	23830	1619	1752	

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23696	54064	A	23831	54	470	CSTMNPSEMQRIAPRRQRHRS RAPSAHKMNRVMVMSEEQMKL PSTKKAEPPTWAQLKKLTQLA KKK\LENTKVTQTPENMLLAAL KTVSTVSAGVPSSEESDHRER AMMTTVVLSKRRGKCGEKKEI SDCYCVYVERS
23697	54065	A	23832	213	572	IQWYPYQDTIDFLHRIRKNFFKF HMEPKKSLHCQDNPKPKEQSW MHHTT*LQTMLQGYSNQKRMP PHLGSEERLCPAAPSGR*GAPLP GRCAIFQV*SDLSAGVPNSSEE TATIENGP
23698	54066	A	23833	296	583	
23699	54067	A	23834	2452	4557	
23700	54068	A	23835	3	266	
23701	54069	A	23836	31	499	ARVTAAVSAAAVAKRVWRDG FDCSGYYSLTILLVQPTKRPE GRTYADYES\NECMEGVCKM YEEHLK\RMNP\NGPSI/THNTTS QLFDFID\DLADLSCLVYRADT QTY\QPYN\KDWIKDEDPTVLLS SGKAQQAREIIVVGS HWGGWG GA WDTGV
23702	54070	A	23837	3	323	
23703	54071	A	23838	366	892	PCVYSQFPAGEQCLKLHSPA EA SPPALEASEAQTRKAPECGSGV PEVAGGSCPCLLLCLPRHQAVP TQGP GTYSPCTSHQPHIFPRPAA PHHLGLLQNP HNAASCIQCLYP AGVATTMPRRKAEGDAEGD/K AKVKDEPQRRPAKLSAKPAPPN PEAKPKNAPGVTL SLRG TATRF

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23704	54072	A	23839	201	1412	LWKSRLTFKLAMSRVPSPPPA EMSSGP\VAESWCYTQIKVVKF SYMWDPSITLAFCREEMG\EVI KSSTFSSGANDKLKWC\LRVNP KG\LDEESKDYLVTFTCYLVSC PKSEVRANFKFSILNAKGEEK AMESQR\AYRFVQGDWGFKK FIRRDFLLEANG\LP\DDKLT FCEVSVVQDSVNISGQNTMNM VKVPECLADELRGLWENS\RF TDCCLCVAGHEFQAHKAILAA RSPVFSAMFEHEMEESKKNPSL KSMDV\VEPEVFKEIMMCFIYTG KAPNLTKMA\NDLLAAADKYA L\ERLKVMCEDALCSNPV\SVEN AAEILIL\ADLH\SADQLKTQAV DFINYHA\GDVLETSGWKSML SHP\HNLVAEAYRSLASKQCPF LGTPTQNALKQSLKILLCC
23705	54073	A	23840	1	575	FRHRKIIY*NLKQEDSINVTEM TSIRASVDILIPDPPPKDDEMDT DKQEKKEVPKCGFLPGNEKVL SLLAMVKPEVWTLKEKCIVVIT WIQHLPKIEDGNDGVAIQEK VLERVNAVKTKEAFQTTIS/K MDYRALVHERDEAAAYGELRA MVLDLRAFYAELYHISSNLEKI VNPKGEEKPLMYPTRD
23706	54074	A	23841	1	1092	
23707	54075	A	23842	130	397	EGVHSQVNLFPKGNQTHVPAS HGTDSALPPTLQMDYRALVHE PD*AAYGELRAMVLDLRAFYA ELYHISSNLEKIVNPKGEEKPF
23708	54076	A	23843	20	334	VRLPGSTHAGGDRSSMAKPCG VRLSGEARIQVEVLRQNLQEA \EEFLYRFLPQKIIYLNQLLQEDS LNVADLTSLRAPLDMPIPDPPP KDDEMETDEQEKKEGK

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23709	54077	A	23844	1	898	MKQKVAAEAGRGQILQAKVLP SGTSLRLAEALFGVQTYDQDA YGFLTPSAQSMKVFCCLWKL CKQLEGDVAQGLAIDGDVKKH SGLEWQVETIQNLVDSYMAIV NKNMQDLMPTIIHLMINNTKE FIFSELLANLYSRGEQNTLMGE SAEQAQGRNEMRRMHVLR APSIIGDIKTIVSTPTGSPKSSPT TQCRLPAVPPARPGLRSPAGPL PAASTLGEAPVVPSTPGASPDPL GPPPIQVPSRPSRGPQPQDRMPC GLAGDLTVGFLEPTLQAIIRWS LLLRPPANSPESQS
23710	54078	A	23845	99	429	FSDAAAVARQPSFGKALGAPQP ADTQPTPSMPPRCPPGGSETPK KAAGKDKSSDK\KNKTKKQMK AEKGGKEKQAEVADQETKDL AENGDTENKESPASDEATEKDT KSD
23711	54079	A	23846	1	390	TWMFIAAVFRIASTWKQPRYFS VGKQDQKRTSRKLQQTCRGA *WLEGKLTNRKE*HQYQRKGH PRKNTIQRSPTLKTKANIILNGQ KLEAFPLKTGTRQRCPLSPLLFN MVLEVLARSIRQEKEIKVFK
23712	54080	A	23847	522	733	ASAADTQANRVWSGPP/RKLQ QTCS*GS*LLQGKLTNRKDIHT KTPSVHHHHQRPKTLNQQRSK ETKKAIT
23713	54081	A	23848	46	330	
23714	54082	A	23849	1	873	MAEKKDPTKEPEKKHLLAWM NKLLYELDPKYKNDSENTDGS VVKHIIACDKPVSPPPSAMIGSF PRPSSEADAGAMLCVQPARTKI LGILGLKATSLQYLRLLHTGKPL LPKIDESTKMGRNQPKKAENSK NQNASPPKDHNSPVRQNR MQNEFDELTEVGFRDRSSKR NSVVIKALPRHLNQGRSQEWR LGIGARDSPKTSGRRGKSPAGP NRTTVPEDQA/GSRPRPIPTRQ ADPRTPPTRSEKE/AQLSLATD QMCPSLAPLIK*PQES**WKQRI SI*MEHL
23715	54083	A	23850	1075	1350	AIITANVFKFVSIDRGLVCNME EGSNCFIDVCSWTSEMKS KGTS RR*KIT*GNSSGSLPRDTQRSGH RNSSLCCERSKYGGSRVDIRRK VF

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23716	54084	A	23851	1	956	MEVLARVFRQEKEMKGIHIGK EEHKLFLFADNMTLCLEKTKDS VKKLVEQPSSFGSVDWLCLSSC SGSTHTPRPADVSPGSLPGPGQ TFGTREPPQAVSTKEASSSNLH APERTVAGLTFTTEQVRALEGV FRHHQYLGPLERNWLAREMQL SEVQIKTWQNRMRMKHKRQM QDSQLNGPLSGSLHGPPAFHSP SSGLANGLQLLCPWAPLPGS/L WLPLGSFWGLRQMDQEALASS WASCCGQPLAYHPPRPGSGAH KLGPALSTGPRGLCALPETGDA FEETPPTTCLPHKRSVQIASDAY PEDSAVLFTSWRHLSP
23717	54085	A	23852	1	846	MEAFDANYTFQSGPSAAGLLV FAGGPLQALCAWVSAVEAAEQ WILQPSSFGSVDWLCLSSCSGST HTPRPADVSPGSLPGPGQTFTGT REPPQAVSTKEASSSNLHAPER TVAGLTFTTEQVRALEGVFRHH QYLGPLERNWLAREMQLSEVQ IKTWQNRMRMKHKRQMQDSQ LNGPLMGSPGAPWLSTHHFLA LAKGLQ\LLCPWAPLPGSPGCP LGSFWGTP\QMDQEALASSWA GCCG\QPLAYHPPRPGSGIDLPK GTQLSLRLFQDISSTRGDHRSG
23718	54086	A	23853	3	239	
23719	54087	A	23854	10	1154	RRAGFGGVRASGAMGTPPGLQ TDCEALLSRFQETDSVRFEDFT ELWRNMKFGTIFCGRMRNLEK NMFTKEALALAWRYFLPPYTF QIRVGALYLLYGLYNTQLCQPK QKIRVALKDWDVLKFQQDLV NAQHFDAAAYIFRKLRLDRAHF TAMPKLLSYRMKKKIHRAEVT EEFKDPSDRVMKLITSDVLEEM LNVHDHYQNMKHVISVDKSKP DKALSLIKDDFFDNINIVLEHQ QWHKDRKNPSLKSKTNDGEEK MEGNSQETERCERAESLAKIKS KA\FSVVIQASKSRRHRQVKLD SSPLDSASGQGQVKATRKKEK KERLKPAGRKMSLRNKGNVQN IHKEDKPLSLMPVITEEEENES LSGTEFTASKRRQH

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23720	54088	A	23855	16	447	VNCDKANCSTTCFNGGTCFYP GKCICPPGLEGEQCEISKCPQPC RNGGKCIGKSKSVCEPGCGAH GTCHEPNKCQCQEGWHGRHCN KRYEASLIHALRPIAGAQLRQH TPSLKKAEEERGDPPESN\YIWVE LPTSGNVLSYTKFI
23721	54089	B	23856	103	1989	
23722	54090	A	23857	3	1295	SGRGVSRHMADYLISGGTGYV PEDGLTAQQLFTGAAARDRLT YNNFLILPGFIDFIADKVDLTSA LTWKITLKMPLISSPMDAVTEA DMAIAMALMGIGFIIHHCTPE FQANEVRKVKKFERGFIMDPV VLSPSHTVG\DVLEGKMRHGFS GIPITETGTMGSKLDSHKQLLC GAAVGTREDDKYRLDLLTQVG VDVIVLDLSQGNSLYQMAMVY YIKQKYPHLQVIGGNMVTAAQ AKNLIDAGVEGLHVGMGCCSSIC ITQEVMAYSWPQGTAVYKVAE YARHFDHGEHGKALALGASTV MMGSLLAATTEVPSKYFFSDG VWLKKYRCMGSLDALEKSSGS QKQYFMEGDKLKIAQGVSSSIQ DKGSIQKFVSYLIAGIQHGCQD TGVCNLSVLLSMMYSGERKFE KWTMLAQIKGGVQGLHSYKK
23723	54091	A	23858	770	1008	LAPSPCVRSKGRKESPDSP/RPL WLRPIAPALGPSGRRGLAPDSR LNPHRSLLGTGNYDVNVIMAA LQGLGLAAVWWDRRR

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23724	54092	A	23859	1	1489	MTRWSSYLLGWTTFLLYSYESS GGMHEECVFPFTYKGSVYFTCT HIHSLSPWCATRAVYNGQWKY CQSEDYPRCIFPFIYRGKAYNSC ISQGSFLGSLWCSVTSVFDEKQ QWKFCETNEYGGNSLRKPCIFP SIYRNNVVSDCMEDESNKLWC PTTENMDKDGKWSFCADTSNL GMGVGPTPRHHRASTRHSKPP PADPDGGERPRTADDRQDDA TEDDGTRCRGRQTRTQATNAN ANHKKSNRTKPPPRHKPNKAK RHTKKETPQNT/CGTQDKNPDS GRPKLFRRACITSTGTRGELWT RSREHPAK\QGRRSKGQRLRPW DRMLSPDWHRAQRIAQVWKPE QEDGLSIGFGDQPGPHSDTSSR QQVRRSKATEMHVGGRVDFD DFVELMTPKLLAETAGMIGVQ EMRDAFKEFDTNGDGEITLVEL QQAMQRLGERLTPREISEVVR EADVNGDGTVD FEGDIDGAWG RHGTQGPHPWPGLGDVRGEPL
23725	54093	A	23860	283	490	GDIWMGTQPKPYHS\PPGPSPN PCPPHFKNQSMSPKSPPKVFNS FPALTQKVHTSKVSSETRQVPS HL
23726	54094	C	23861	82	222	
23727	54095	A	23862	27	454	VDGRIAGEITRRGSRARPRPGPQ CPPGRPGTAMIKAILFNNHGKP RLSKFYQPYSED TQQQIIFRETFH LVSKRDENV CNFLEGG/IVFVE TLDKCFENVCELDLIFHVDK VII NILAEMVMGGMVLETNMNEIV TQIDAQNKL
23728	54096	A	23863	1	403	RGSRARPRPGPQCPPGRPGTAM IKAILFNNHGKPRLSKFYQPY EDTQQQIFRETF/HLGSKKEEK WNFLKGGLLIGGSDNKI.DYRII YATVYFVF/GGDFSKRELGLFN LIQEFGEPLDKCFEKVWELDLIF
23729	54097	A	23864	215	599	

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23730	54098	A	23865	2	683	GRIAGEITRRGSRARPRPGPQCP PGRPGTAMIKAILIFNNHGKPRL SKFYQPYSED TQQIIRETFHLV SKRDENV CNFLEGGLLIGGSDN K\LIYRHYATLYFVFCVDSSEAS ELGILDLIQVFV\ETL DKCFGNV\ CEL\DLIFHV\DK VHNIL\AEMV MGGMVLETNMNEIVTPIDAQN KLEKSEAGLAGAPA\RA\VSAV KNMNLPEIPRNINIG\DISIK\VP
23731	54099	B	23866	94	726	
23732	54100	B	23867	94	1146	
23733	54101	B	23868	1	360	
23734	54102	B	23869	1	1371	
23735	54103	B	23870	1	639	
23736	54104	B	23871	280	2391	
23737	54105	A	23872	3	244	
23738	54106	B	23873	103	285	
23739	54107	A	23874	70	378	MPLRILLMHGEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEILQIKTK HYTTKEQEKEEQGIKLVQGSNN D/QEQEKKGEYKNTGEKNSMK
23740	54108	A	23875	5	156	RKKGGG/EREEEGEGEEEEEEEE EEEEEEEEEEEEEEEEEEEEVVL LTPGTGAEDFKKH

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23741	54109	A	23876	1	1808	MEVLSIDNLAGHKVIFYQKESHS WKQKQDLMMSGKRLSAANPLP ALLLPVLWTTGQAPSPGPGGDP ILQLWDDAQQMAGSPRTKKKG CTRNSQAARLSFQSRGGQGS LT EKMIFEQRFGGGKGESRKDAIA IIVVDIVTLQPCRTVEWVPTP RSLQGHFQGGGLRRQMMVME GVWVLSCAMDLTSPRDCLPFC VSLPVLLLSAPLCSCSTAGGSPV TSPHHFPVEGGLGRVRRCYINE PVVTTLGWESVCWVSFWLLLR IRYSTSGQAACHAESQELNPRG FGCLGHRNVTWVKCLLPALQP EGSVPFLELLEPFIFASASKTFV AANLVTWVACFLLVQAAFQLS EYRQGVGIPVADRTGDAPTLGL SYEADVAEGHGFFLDQESVIQII PEPLPQFYLCLLDAELTG VQGE PALPSMQIFSSPEAATGVHNDR GAEHFPVSRQPSAELGLRPMQA SQERKINFPGPSPGFPKRQNK LSRREKKEEEEKEEEEEEEEE/E GEEEEKEEEEEKEEEEEEEEE GEEEEEEEEEEEEEEEEEEEE KWLYQYDPEDKAQSKQWLSR GGSGPVKAKADWWRAKEIHS LQPRQVIPGIPSM
23742	54110	A	23877	459	636	IPGGSNGLEAEGPPPPPLPVA AVLA/AGSGGLAVASCAFTICAL RWPGVPCSRVPIWTPS
23743	54111	C	23878	183	254	
23744	54112	A	23879	103	335	LGSGDLPWEINPLSSCSLLHEK DPPTTSGPQTDRPKEHLINFKSG ACYTCRKSGH*AKECLQPGIPIK PHLICVGP
23745	54113	A	23880	159	306	LGSGNLP*EINPLSSCSLFREEDP PTTSGPQTNQPKHLTNFKSAA ED
23746	54114	C	23881	80	106	
23747	54115	A	23882	317	427	
23748	54116	A	23883	353	511	
23749	54117	B	23884	1	320	
23750	54118	A	23885	1	624	
23751	54119	A	23886	224	355	
23752	54120	A	23887	872	1003	
23753	54121	A	23888	1	603	
23754	54122	A	23889	2	214	
23755	54123	A	23890	459	601	DVDRHVRGSNFHHNEIRSLAAT PRAPGTLAQ/GLTDSFPDLLGLA AED

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23756	54124	A	23891	2	267	QWDG WGARKGMEWEDDLPLE FGRPTASLLSDRPQPNSRGS DV PFLAPPSLPCHSSACLAATPRAPG TLAQGSLTDSFPDLLGLAAED
23757	54125	A	23892	72	299	
23758	54126	B	23893	1	1470	
23759	54127	A	23894	134	1276	
23760	54128	A	23895	2	847	PPPPRVLRTGGGASLTAQAPGT PRRPQEGEPVTPGRSLGLRSSCQ ASVSLLLPVIVACASLEPGRGR AFRDEGA WNTRVSA AVISSQA QLLSSILVNSRRLSFSAHHTAFG TVALGEYAFRMFRLSARLFGAE VTRPTNS/RSLMKVVKLFSE/IW PLAKKKETYDWYPNHHTY/AL ELMAGRLRFLGTLTEDEAFRDF MGMEAKTDLKEAFVGKGGNP KEREKGKRAAKKGN SCLVPSR RGDFLSSVAERRKLHLLSFPHIG GDVIFLNGSLFGRNTSHLIGEI
23761	54129	A	23898	3	1224	MRRNKPRQRGVREARPAGGAG PGWRGARC SGAGEGGGGERRG SPPAALALAPASGPRRNFPDA RCLIQQIHQGAFLLAGSASLS AVTGVPGEARFTEDYCPEEK MFGFHKPKMYRSIEGCICISGA KSSSRFTDSKRYEKIDFQSCFG LHETRSGDI\CNACVLLVKRWK KLPAGSKK\NWNHVVDARAGP S\KTTTFEPK\KVKTLSG\NRIK\S TQISKLQKEFK\RSNSDAHSTTS SASPAQSPCYSNQSDDGSDTEM ASGSNRTPVFSFLDLYWKRQK ICCGIHYKGRFGEVLIDTHL.FKP CCSNKKA AA EKPEEQGPELPIS TQEWTECPDLSLVVSWRPPLSS LPAGCSLHGLAADWTTDMITV TTSKCREPSCQQEGSFQRRKAF PKRLPKMAEVQVLVL
23762	54130	A	23900	69	355	
23763	54131	A	23901	316	830	VLSLQTLHPPMTLQLSRYSRGW GLSSDRPRGAKAKVPSCFGTAP R/GPEAAPRLLAHHLVPAGRG S/ ARAPAGWRLGSP\GAGRKGR DFRLPASGLAVSGEWDPIPWGY VGEVGGCSCQWFSPGVQQR RRKVWLGPQDLPGPSALADK GPALAKADGQRVNVASVGLQP

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23764	54132	A	23902	1	1044	MSYKVTQEISKELRWISAVLVT WDLRGETGTRVCIAMGVSRMQ YSIMAKIVGSGNNLELNPAADK LDNLGAQCGLASVKVSARAAP PFAPATLVALLEAAELPLPPP PGVSLRCVEAPDVRGRGRGGG EGSGVTRLLPPPPPSGASFLQR GRPVTALFQAGWGRAADRP PADLAGGAGGRSGRRMLPRS PGAALRDRSALEDGIVEGYGPL GEPEEGSRSSFLESKVAFNYCN KVAPLDFGNEAVEQCHTMSDR KAVIKNADMSQDMMQDAVDC A\TQAMEKYNIKEDIAAYIKKEF DKKYNPTWHCIVGRNF\GSY\V PHTEDKHFIYFYLGQVAIL\LFK
23765	54133	A	23903	33	427	
23766	54134	A	23904	72	777	EWKQAGEGGGGQRRGSPPAVL ALAPASCPREMSYLPTNPPGSI LICWLGVSLSHRSAGGSAIY G\SYYPEEKMFFV\FHKPKMYRSI EGYCICRAKSSSSRFTDSKRYEK DFQSCFGLHETRSGDICNACVL LVKRWKKLPAGSKKKTGIMCN QSDDGSDTEMASGSNRTVPVFSF LDLTYWKRQKICCGINYKGRF GEVLIDTHPFKPCCSNKKA KPEEQGPEPLPISTQEW
23767	54135	A	23905	234	989	PKTSDQAYYCPEEKMFGFHKP KMY\RSIEGC\CISGAKSSSSRFT DSKRYEK\DFQ\SCFGLHETR\SG D\CNACVLLVKRWKKLPAGSK K\NWNHVVDARAGPSLKTTLK PKKVKT\SGNRIK\STQISKLQK \ENFKR\HNS\DAHSTHPQVPSP\ AQSP\FTVNQFRWTGSDTGVG FPGSNRNHPVFSFLDL\TYWKR QKICCGI\NYKGRFGEVLIDTHLF KPCCSNKKA\AAEKPEEQGPEP LPISTQEWVTEVFM
23768	54136	A	23906	3	1059	

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23769	54137	A	23907	1	1697	MRPCALCWRS AVTAAPERAVL ESRGGAPDTPRRLHSFTQTRSLS PQAHAGPHTRLHPRQGHAMR GGGRVTDTRRHIPNADVPRYK LTCTGGVTTFVALYDYESRTET DLSFKKGER\LQIVNNTKGDW WLAHSLSTGQTGYIPSNYVAPS DSIQAE EWYFGKITRRESERLLL NAENPRGTFLVRESETTKGAYC LSVSDFDNAKGLNVKHYKIRK LDSGGFYITSRTQFNSLQQLVA YYSMSHCPPFSAAGWYGGGCP EEPQKHADGLCHRLTTVCPTSK PQTQGLAKDAWEIPRESLRLEV KLGQGC FGEVWMGTWNGTTR VAIKTLKPGTMSPEAFLQEAQV MKKLRHEKLVQLYAVVSEEP YIVTEYMSKGSLLDFLKGETGK YLRPLQLVDMAAQIASGMAYV ERMNYVHRDLRAANILVGENL VCKVADFLARLIEDNEYTAR QGAKFPIKWTAP EAALYGRFTI KSDVWSFGILLTELTTKGRVPY PGMVNREVL DQVERGYRMPCP PECPESLHDL MCQCWRKEPEER PTFEYLQAFLEDYFTSTEPQYQP
23770	54138	A	23908	1	736	MDPGAALQRRAGGGGGLGAG SPALSGGQGRRRKQPPRPADFK LQVIIIIGSRGVGKTS LMERFTDD TFCEACKSTVG VDFKIKTVELR GKKIRLQIWDTAGQERFSSITSA YYRSAKG MILVYDITKKETFDD LPKWMK MIDKYA\SEDADLLL VGNKLDCE TDREITRQQGEKFA QQITGMR FCEASAKDNFNVD EI FLKLVD DILKKMPLDILRNELS NSILSLQPEPEIPPELPPPRPHVR
23771	54139	B	23909	84	441	
23772	54140	A	23910	6	254	
23773	54141	A	23911	1	230	
23774	54142	A	23912	3	187	
23775	54143	A	23913	3	143	
23776	54144	A	23914	3	481	
23777	54145	A	23915	1	711	
23778	54146	A	23916	55	381	

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23779	54147	A	23917	240	875	GLSAESTPTSIMSMTLGWDIR GLAHAIRLLLEYTDSSYEKKY TMGDAPDYDRSQWL\NEKFKL GL\DFPNLPYLIDGAHKMHPEA TPFLCY\ARKHNLLLGETGRRE KISSWDIL\ENQAMDVSQNLAR VCYSPDFEKLKPEYLEELPTMM QHFSQFLGKRPWFVGDKITFVD FLAYDVLDLHRIFEPNCLDAFP NLKDFISRFEVSCGIM
23780	54148	A	23918	64	774	CLSAESAPTSTMPMTLGWDIR GLAHAIRLLLEYTDSSYEKKY TMGDAP\DYDRSQWLNEKFKL GL\DFPNLPYLIDGAHKITQSNA ILRYI\ARK\HNLCGGDRRREKIS CWDILENQVM\DNHMEVLRLC YDPDFEKLKPKYLEELPEKLKL YSEFLGKRPCFLG\DKITFVDFL VY\DVLETK\QVFEPK\CLDAF\Q NLKDFISRFEGL\EKISAYMKSS\ RFL\QELVFSKMAVWGNK
23781	54149	A	23919	163	317	LSPNNYYRKLQKVKLE*RYHR LALFSFPTKLTPEKVSLLCCRFL EMGYIF
23782	54150	A	23920	62	255	VRLTAQKSLGPLTSTHSLWGSA \RARHREPVGSVCGCDPCEQLL LLVSQLRAPGVDSAAAGRPV
23783	54151	A	23921	173	467	KSRFCFFGVVLKLPKKLHIR*WI GATL*NQP*TIFQTDGDCSHQSL GPLPACDLWDQLHLRSKQGS VCGCDPCEQLLLLVSQLRAPGV DSAAAGRPV
23784	54152	A	23922	35	548	PRSCPSLSPGLSCLLQ/RLVNYQI SIKCSNQFKLEVCLLNAENKV DNQAGTQGGQ\PAVGQARWGS GCRGAHTWPLAVIGAADCTG QRGWEGV*AFPGLTEPVSSLFC GQDGD/CSPHSM*VLSHVVLWL LNLGCSLVLGSVCGCDPCEQL LLLVSQLRAPGVDSAAAGHPV
23785	54153	A	23923	1	599	MSPAGLVNYQISVKCSNQFKLE VCLLNAENKVVDNQAGTQGGQ KGRPDGAQAV/VGAHTWRFGC RRCG*LHRSHWGL*LLHTPCGR PHCARHREPVASHLLCSRAISGS EPHFWQCSVQ*PQLCVPGRVAT PLGELDSGDGDCSHQSLGPLPA CDLWDQLHLRSRQGGSVCGCD PCEQLLLLVSQLRAPGVDSAAA GRP
23786	54154	A	23924	290	528	

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23787	54155	A	23925	274	571	KSRFCFFGVVLKLPKKLHIR*WIGATL*NQP*TIFQTDGDCSHQSLGPLACDLWDQLHLHSRQGGSVCGCDPCEQLLLL\VSQQLQAPAI DSAAAGRPV
23788	54156	B	23926	204	410	
23789	54157	A	23927	29	330	YLGVELVKSAYPFFQIHLSPSCMWLWGLFLLFYIDFLTLMCGDKPLICKKHQLSASTCA/CTIC*GALTLLMEIEQGPCDLSCASREVSTARSLAELFSGP
23790	54158	A	23928	259	699	ETSHQVMDRSNPVKPALDYFLNRLVNYQISVKCSNQFKLEVCLLNAENKVVDNQAGTQGQLKVLGANLWWPYLMHEHPAYLYSWEDGDCSHQSLGPLACDLWDQLHLRSRQGGSVCGCDPCEQLLLVSQRLAPGVDSAAAGHPV
23791	54159	A	23929	245	695	
23792	54160	A	23930	302	745	ETSHQVMDRSNPVKPALDYFSLNRLVNYQISVKCSNQFKLEVCLLNAENKVVDNQAGTQGQLKVLGANLWWPYLMHEHPAYLYSWEDGDCFTPKALDPLACDLWDQLHLRSRQGGSVCGCDPCEQLLLLVSQRLAPGVDSAAAGRPV
23793	54161	A	23931	2	293	VFCHTDLRKNLTVDEGTMKVEVLPALTDNYMYLVIDDETKEAAIVDPVQPKVVDAARKHGVKLTTLTTHHHWDHAGGNEKLVKLESADLGIRLF
23794	54162	A	23932	1	441	
23795	54163	A	23933	1	630	
23796	54164	A	23934	3	265	
23797	54165	A	23935	3	1062	SAVQPGPVMVVGRGCSRRSLAALGAACARRGLGPALLGVFCHTDLRKNLTVDEGTMKVEVLPALTDNYMYLVIDDETKEAAIVDPVQPKVVDAARKHGVKLTTLTTHHHWDHAGGNEKLVKLESLKVYGGDDRIGALTHKITHLSTLQVG\SLNVKCLATP\CHTSGHI CYFVSKLGG\SEPFVVFTGDTLFV\AGCGEVLMMKGLRDEMCKALLEV\LGRLPPDTVGSASLRAGRVYCG\HEYTIKQTSKFAR\HVGNA\AIKEL\LPWA\KEKYSIGEP TVPST\LAEEFTYNP\FIK\REER RCKQH\AGETDPVT\TMRPVRRE KDQ\FK\MPRDLRPLHLQQDL GIKALLDRLF

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23798	54166	A	23936	107	750	SHLWSPVSEPLQACSFV/VIRDK YRYFACLMRARSEEHTNEKDM MKAIRLLKEAEEEFWYHQHPQ PCIFPDSRGTSTSYVTHECYKVPE WCLDDWHPSEKAMYPDYFAK RKQWKKLRRESWKREVKQLQ EETPPAGKEECKLHEGMNYVV LTCIPGAIKQYLACSRYSKTPGP RDSCWEVQSDNQCWWWLD SG AHGLVTSFKGVMMTVEATTM AAVF
23799	54167	A	23937	3	718	PASTISCSVTRSRRRAVSRLSARP GKVSASMASLASGPYLTHQQK VLRLYKRALRHLESWCVQRDK YRYFACLMRARFEEHKNEQDM AKATQLLKEAEEEFWYRQHPQ PYIFPDSPWGHPPYERY\DCYK VP\EWCLDDWHPSEK\AMYP\D YFAKREQWKKLRRESWERE\K KQL\QEET\PPGGSF*LEALPPGP KRKVLPLWWYIVTRP\RRP MLERERPHLSCLQVKYVTEHG
23800	54168	A	23938	269	488	TDGVIFIGLSWSPRRCGLGIRDR AERIFFALDQASCGFTIHPHIDA AETPRGLTMHLCCRRCQRGQSQ AEKLP
23801	54169	A	23939	1	1560	MVHLGAPVMALNLQGKHLCD STASSLLPRRRESNSDDTARED ARQKRPANTDMRTQELQTRET GQGTARETEVATPLSGPSAGDS PPAASEMSCGQLVLALLLLFFL LVWNTGTKSGSGRVARLAQLA HDCDGGALGLCYAVLDQRSV VQATPQAPKPGPVQPLTVQGL QPVHVAQESSGNEITARRQSAR SRPRGDRTPSRRVTRRPKHAP ERAPIQQGNIVTVRAPTARKKW RPAVGTPTGAHPVCTAKGTGG RPTPTQAHTRYTERDPIRNSAEL TGSRPCTGRERSGVEACKAAV HNLLAQTGSSGLIINYPLDD\Q DAIAVEAACTNVPALFLDVSDQ TPINSIIFSHEDDVWRTPLVAPT NLNTRSSQPARHHRAGAVRRH HMTVARSAHAHRLRRHAKPQ GRERIKPSGAREGSEPLGGESGI RTPRGRERDPNPSGAKAGSEPG RIPETLPRCKGETEAKCWARGN FHTAQGSWPRGGRSRWEPLEA PALSQQAHHGELPLPAAARSHR
23802	54170	B	23940	98	229	

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23803	54171	A	23941	1	256	
23804	54172	A	23942	289	433	VLWSCAAEDFDWL VYRPIGSA LSCRLIGPWAIGMWETGFP*VL WSCAAEDFDWL VYRPIGSA LSC RLIGPWAIGMWETGFP LLSSVS LS
23805	54173	A	23943	450	1260	LCACVVGGEKRS GPRIGCAGA GKDPFWRAVGVAQKAAAVVA CGAASPYRNRADVSDHSQS RGPGLSLSGGTVC DMGKKTK RTADSSSEDEEEYVVEKVLDR RVVKGQVEYLLKWKGFSEEHN TWEPEKNLDCPELISEFMKKY KKMKEGGM\NKVREKSESSKR KSNFSDSAEDIKCKKKREQSND IARGFERGLEPEKIIIGATDSCGD LMFLMKWKDTDEADLV LAKE ANVKCPQIVIAFYEERLTWHAF\ PEDAENKEKETAKS
23806	54174	A	23944	3	267	AMVGGGGVGGGLLENANPLIY QRSGERPVTAGEEDEQVPDSID AREIFDLIRS*AWPLTPQPAYW YPGPSSCQGCYRCFLES LTMRN
23807	54175	A	23945	1	942	
23808	54176	A	23946	3	470	AMVGGGGVGGGLLENANPLIY QRSGERPVTAGEEDEQVPDSID AREIFDIRRCWARAGSGGLRW GEQ*YRAAGGAASQQGV PGRG F*VGKGAESLFLHFPQLIRFLN DP\EHSLTLEELNVVEQVRVQV SDPESTVAVAFPTISHWSMGT
23809	54177	A	23947	2	604	ARSHRISGGGSAMVGGGGVGG GLENANPLIYQRFGERPVTAG EEDEQVPDSIDAREV\DLIRSH QMTPEHP\LTLEELNV\EQVR\ VQVSDP\ESTVAVGF PKPTHSGT CRHG PPLIGLS\IKVK\LLRSLPS AFSRWDVAHLLPGDPLPQEHA VEQATLQIKEAGWATALGRTH HLLVVN\QCLSSPAPGTWAFV
23810	54178	A	23948	1	1002	

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23811	54179	A	23949	89	2587	STSRDRRLSKRSRTTMAAQPRG GDYRGSFLLSILLGTPWEAWAG RILYSVSEETDKGSFVGDIKDL GLEPRELAERGVRIISRGRTQLF ALNQRSGSLVTAGRIDREEICA QSARCLVNFNLMEDKMNLYPI DVEIIDINDNVPRFLTTEINVKI MENTAPGVRFPLSEAGDPDVG TNSLQSYQLSPNRHFS LAVQSG DDETKYPELVLERVLDREEERV HHLVLTASDGGDPPRSSTAHQ VTVDVNDHTPVFSLPQYQVT VPENVVPGTRLLTVHAIDLDEG VNGEVTYSFRKITPKLPKMFHL NSLTGEISTLEGLDYEETAFYE MEVQAQDGPGLTKAKVLITV LDVNDNAPEVTMTSLSSSIPED TPLGTVIALFYLDQDRDSGKNGE VTCTIPENLPFKLEKSIDNYYRL K\TTKNLDRETLSLYNITLKATD GGTPPLSRETHIFMQVADTNDN PPTFPSSSVYIAENNPRGASI FLVTAQDHDSEDNAQITYSLAE DTIQGAPVSSYVSINSDTGVLY ALQSFQDYEQLRELQLRVTAHDS GDPPLSSNMSLSLFLVDQNDNP PEILYPALPTDGGSTGMELAPRSA EPGYLVTKVVAVDKDSGQNA WLSYLLKASEPGLFAVGLYTG EVRTARALLDRDALKQSLVVA VQDHGQPPLSATVTLTVAVAD SIPEVLADLGSLEPSDGPYNYDL
23812	54180	B	23950	165	335	
23813	54181	A	23951	217	859	GSAMAQQRALPQSKETLLQSY NKRLKDDIKSIMDNFTEIHKTA IEDETQVSRATQGEQDNYEMH VRAANIVRAGESLMKLVSDLK QFLILANDFPSVNEAIDQRNQQL RTLQEECDRKLITLRDEISIDLY ELEEEYSSSPGPSLVSQQLSEQ QLLSSAWTAWPKVTLSSLAPGP QYSVNGPAAIIAHPGTCASAGIS SSLLPEPVLLVPVF
23814	54182	A	23952	1	1263	

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23815	54183	A	23953	70	2530	PGVSRLVSKLRRARGMSGAG ELGRAERLPELFLFLLTLFCPAL CEQIRYRIPEEMPKGSVVG NLA TDLGFSVQELPTRKLRSSEKP YFTVSAESAELLVSSRLYREEIC GKKPACALEFEAVAENPLNFY HVNVEIEDINDHTPKFTQNSFEL QISESAQPGTRFILGSAHDADIG SNTLQNYQLSPSDHFSLINKEKS DGSKYPEMVLKTPLDREKQKS YHLTLTALDFGAPPLSSTAQIH VLVTDANDNAPVFSQDVYRVS LSENVYPGTTVLQVTATDQDE GVNAEITFSFSEASQITQFDLNS NTGEITVLNTLDFEEVKEYSIVL EARDGGGMIAQCTVEVEVIDE NDNAPEVIFQSLPNLIMEDAEL GTHIALLKVRDKDSRHNGEVT CKLEGDVPFKILTSSRNTYKLV TDAVLDRQNPEYNITVTATDR GKPPLSSSSSITLHIGDVNDNAP VFSQSSYIVHVAENNP PGASISQ VRASDPDLGPNGQVSYCIMAS DLEQRELSSYVSISAESGVVFA QRAFDHEQLRAFELTLQARDQ GSPALSANVSLRVLVDDRNDN APRVLYPALGPDGSALFDMVP HAAEPGYLVTKVVAVDADSGH NAWLSYHVLQASEPGLFSLGLR TGEVRTARALGDRDAVRQRLL VAVRDGGQPPLSATATLHLVF ADSLQEVLDPDITDRPDPSDLQA
23816	54184	C	23954	75	149	
23817	54185	A	23955	442	618	CQRLRSWVSQPFSFSFFPSFPTF* NILCLFVYLEVEFPSCCPGWSN NWAKSSGKALEAN
23818	54186	A	23956	1	245	

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23819	54187	A	23957	30	1079	APCASFLTPLAAASVGK VWLG LRGAAPMASVLSYESLVHAVA GAVGSVTAMTVVFPLDTASIF DFSVD FK RK SKTTHMVVLEHK EEGLLAPYRGWFPVISSLCCSNF VYFYTFNSLKALWVKGQHSTT GKDLVVG FVAGVVNVLTITPL WVVNTRLKLQGAQFRNEDIVP TNYKGIIDAFHQIRDEGISALW NGTFPSLLLVFNPAIQFMFYEGIL KRQLLTFAFQLSSLDVFIIGAVA KAIATTVTYPLQTVPLFPQFGR HRLNPENRTLGLSRNILYLLLOI FRTPSEREPFYTSVTL SVLSSVA YPM MPLSNITSAYRIGVLEKGG GSGKSDNSDDDDDDND DGGV
23820	54188	A	23958	1375	2451	VPRVPFAINVLT HSRQRYRRNL RFYADDPTIRV/GGPTYH WVRE AEEERVVDNRMHDFCELRTA AGHPVEGGRPLVIKGITHPAET ALQRFKFLMYQVVASDL DGTIL LSPDHTLSPYAKETL KLLTARGI NFVFATGRHHVDVGQIRD NLEI KSYMITSNGARVHDL DGNLIFA HNLDRDIASDLFGV VVNDNPDIIT NVYRDDDEWFMNRHRPEEMRIFF KEAVFQYALYEPGLLEPEGETK ALLTPGKLKNFLVEKMRTLGT AACPPYHIAFVIGG TSAETNLKT VKLASAHYYDELPT EGNEHIGQ GSAMSSWNRNCWKRPKNSVLA RSLAVNTSRTTFALS VCHVTAH PARSAWASPVR
23821	54189	B	23959	1	1386	
23822	54190	A	23960	1375	1609	VPRVPFAINVLT HSRQRYRRNL RFYADDPTIRV/GGPTYH WVRE S\EEERVVDNRMHDFCELRTA AGHPVEGGRPLVIK
23823	54191	A	23961	433	741	
23824	54192	A	23962	12	224	
23825	54193	A	23963	3	2053	

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23826	54194	A	23964	1	2408	MGGADIAGPRREHNAKHPTVG LGSAAQTTCLPGPKQKGDPTRH QPVDKRNVDVGPRQHFWCWRV EIHKEKRMKTGPLNESELEWLD DILTKYNTDHAILDVAELDGLL TAVLSSPQEIEPEQWLVAVWG GADYVPRWASEKEMTRFMNL AFQHMADTAERLNEFPEQFEPL FGLREVDGSELTIVPPGGRTA TNALSCGSLFGEETSPRGPSADS TSQSIGGGSPHDCAKGIALVAA NGGDIRDYEGVDRSAKPQLPMI AINTTAGTASEMTRFCIITDEAR HIKMAIVDKHVTPLLSVNDSSL MIGMPKSLTAATGMDALTHAI EAYVSIAATPITDACALKAVTM IAGISTFFASSRMALMQASAPSA SFLPVTFTPIAAAQSRRAAAT GYRDRWLCHGDVLLQICANTQ DTVIHALRDIKHNSCPDDCSVQ HDAVIDDGCDFIDYLGSETVV ALNTPRADDYHPVMVLCAKTD KAHRNVIHTSKLCFITLTPEISQ RSHGKSSKRVFSCFPVFLLLKH RRIVAQKYAELAYDLFHLGFD VLIIDHRGQGRSGRLLADPHLG HVNRFNDYVDDLAAFWQQEV QPGPWRKRYILAHSMGGAISTL FLQRHPGVCDIAIALTAPMFGIV IRMPSFMARQILNWAEAHPRFR DGYAIGTGRWRALPFAINVLTH SRQRYRRNLRFYADDPTIRVGG
23827	54195	B	23965	1	3357	
23828	54196	A	23966	14682	14931	EIGPGPRPLPSPLP*ATSTSVLAA SGRPERTR\HAGIKIVLEDIFTL WRQVETKVRAKIRKMKVTTKV NRHDKINGKRKTAKEQSPLLQE SLFATGDVSHNLLRALDVGLLA NLSALAELDISNNKISTLEEGIF ANLFLNLSEINLSGNPFECDCGL AWLPRWAEEQQVRV/AAARGS HVCWAWLPGWPASAWHPLAG QWLW*GVCRLPP*QQLRHRGS SVLFSCPRRPA/CSQRPAAAPSAS PPARASQPSPSRA

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23829	54197	A	23967	1	714	MVKLSIVLTPRFLSHDQGQLTK ELQQHVKSVTCPCEYLKRVINT LADHRHRGTDFFGGSPWLLIITV FLRSYKFAISLCTSYLCVSFLKTI FPSQNGHDGSTDVQQRARRSN RRRQEGIKIVLEDIFTLWRQVET KVRACKMKVTTKVNHRDKI NGKRKTAKHLRKLMSKEREH GEKERQVSEAEENGKLDMKEI HTY/MITPSARKPLCNVRMAA AEHRHSSGLPYWPYLTAE TL
23830	54198	A	23968	111	216	ALLFPISWSTPLGTQQAPQCV* PTPMPMRPVPS
23831	54199	A	23969	1	4710	
23832	54200	A	23970	3544	3723	RSHRSPPRCPPSRAPAPRRSAAA PPRR*PPRAPAAPRPGPP/CMAR PPPARPTAGSRVPPL
23833	54201	A	23971	3	1119	EFGTSHRHRGTDFFGGSPWLLIIT VFLRSYKFAISLCTTYLWVINTL ADHRHRGTDFFGGSPWLLIITVF LRSYKFAISLCTTYLCVSFLKTI FPSQNGHDGSTDVQQRARRSN CRRQEGIKIVLAEDIFTLWRQVE TKVRACKMKVTTK\ATRLTK IKERRKTAQDHWRLMSKERE HREEERQVSEAEENGKLDMKEI HTYMEMFQRAQALR\RAEDY YRCKITPSARKPLCNVRMAAAA EHRHSSGLPYWPYLTAE TLKNR MGHQPPPPTQQHSIIDNSLSLKT PPECLLTPLPPSALPSADDNLKT PAECLLYPLPSADDNLKTPEEC LLTPLPPSAPPSADDNLKTTPKC VCSLPFHPQRMISRN
23834	54202	A	23972	1	1149	

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23835	54203	A	23973	93	1165	HRRSAAEAPAAAVMPFPFGKS HKSPADIVKNLKESMAVLEKQ DISDKKAEKATEEVSKNLVAM KEILYGTNEKDPQTEAGAQLAQ ELYNSGLLITLVADLQLIDFEGK KDVAQIFNNILRRQIGTRTPTV EYICTQ\QNILFMLLKGYESP\EI ALN\CGIMLRECIRHEPLGKIII. WSEQFYDFFRYVEMSTFDIASD A\FATFKGLLTRHKLLSAEFLEQ HYDRFFSEYEKLLHSENYVTKR QSLKLLGELLDRHNFTIMTKY ISKPV\NLKLMNLLRDKSRNI QFEAFHVFKA\FVANPNKTQPIL DILLKNQAKLIEFLSKFQNDRTF DEQFNDEKTYLVKQIRDLKRPA QQEA
23836	54204	A	23974	3	158	
23837	54205	A	23975	3	1071	GVRASGRAVPRAVFAGMKRPC EETTSESDMDETIDVGSENNYS GQSTSSVIRLNSPTTTSQIMAR KKRRGIIEKR\RRDRINNSLSEL.R RLVPTAFEKQGS AKLEKAEII.Q MTVDHLKMLQATGGKGYFD\A HALAMDFMSIG\FRECLTEAAR YLSSVEGLDSSDPLRVRLVSHI. STCATQREAAAMTSSMAHIIHH PLHPHHWAAAFHHLPAALI.QP NGLHASESTPCRLSTTSEVPPAH GSALLTATFAHADSALRMP\ST GSVAPCVPLLSTSLLSLSATV\H AAAATATAAAHSFPLSFAGAFP MLPPNAAAAVAAATAISPPI.SV SATSSPQQTSSGTNNKPYRPWG TEVGAF

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23838	54206	A	23976	1	1416	MPGNLTRKESSSPLTDRHCHTS SQFSHRFNAISPFPPAELGCDHV ASAAADPLGVPGVATQWAGGL SAALAAPRRPHSCRRQLQVLGAL GILKSAGRVNFRFCFGLSIRGKP KTPLWEQEKPKLQTGSAGSQQ KRVMLKPSRGADRVLGRGSQR PAETDRETTDLRQRKRMKEGK ERTLRAARGETRRSNGNLARQ TVPEGCRSQTQALQVVRNART PPCIPNLDRPPEACSSGSTGGM MPLRVAPSPVASGESSHLSGR GDRGLVRCKVEELRFQPVAFPE FIPPPTSPRADSESGDWCCTVLA NPSKTGSGGWEQRKTECAPQGR TQNPQQRGS/RNLVLLTAGQES TPRRSQLTRSPAERRTTEEQGE DRKNRALGCNLFPRVPRHARD SQRALRASTQAPKKSTFAFPGI HSGAVCSKRRICGVQGEFFPLPF ASQCSSCLKILPSPGPTKELTSY LLHSGCGFLDKLRV
23839	54207	A	23977	3	139	
23840	54208	A	23978	141	734	GSQLRRPAFGVRVALEESKGLI RKDSCRGRACAGANACARRRR PPTMSGAAWRGTPLALVRSSRT RGVWAWQWSATRSPSDSCFPG VARDKEDGEPKTKHLREEEEE GEKHRELRLRNYVPEDEDLKK RRVPQAKPVAVEEKVKEQLEA A\SPEPVIEVDLANLAPRKPDW DLKRDVAKKLEKLKRTQRAI GRLDP
23841	54209	A	23979	3	585	GTVGGVCGPRRSSASPQEQQDQ DRRKDWGHVELLEVLQARALF TAVPLSEEDRATVLKAVHKVK PTFSLPLQLPPPNTSKLLRDVY AKDGRVSYPKLHLPLKTLQCLF EKQLHVELASRMCVVSVEKPT LPSKEVTHARKT\KTLRDQWE KALCRELRETKNRLERQVYEG RFSLYPFLCCLLDECEVVRMLLQ

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23842	54210	A	23980	1	3778	MRRRGVPVGWPGAACVMSALC WGRGAAGLKRALRPCGRPLP GKEGTAGGVCGPRRSSASPQE QDQDRRKDWGHVELLEVLQA RVRQLQAESVSEVVNRVDVA RLPECGSGDGSLLQPPRKVQMG AKDATPVPCGRWAKILEKDKR TQQMRMQRLKAKLQMPFQSG EFKALTRRLQVEPRLLSKQMG GCLEDCTRQAPESPWEEQLARL LQEAPGKLSLDVEQAPSGQHSQ AQLSGQQQRLLAFFKCCLLTDQ
23843	54211	A	23981	101	805	HMYTSMKPSSQPRSWISTPHPK ACSSLSFPLSLDNWMNINLREVI CTSRDGDKFWRMPECYIRGSTI KYLRIPIDEIIMVKEEVVAKPR GRGGLQQKQKQKGRGMGGAG RVGSPLSSG\VPGAGRQPHVAS LLLGVALAALPRRLPNLPGPPS CPLAMNRGPGRGAPRHGTQPSS QCASWRSSGHIKSPQAPVSPM RGNGGAHLRPLATTLGTLRGS IQSQRPPPEMMNWH
23844	54212	A	23982	133	1069	RIAWGQDRSCLQGPFATYVP GLILCSLQGWYGVQAGQDLQG LPRSQGWARRPGGKLITCSPSP QDGDKFWRMPECYIRGSTIKYL RIPDEIIMVKEEVVAKGR\GR EGPCQQAESQQK/GVRGMGGA\ GRCVFGGRGRGMGSPITGRCH PDKKPGRQAGQTVSAHPDRLL RPLLARVGDFRSTVSERNLLQK GRGRPPRGEPPFRVLVTPSLFKV KAPFFLPKNRQILRVRKCLLCCF FGFCETGPSQKLGNPLERVLC LKAIFSSPFASGFSRASHFPRRG LFLHFLGSLSEASNQTGRFLIK
23845	54213	A	23983	1	326	PVSLECYTVPPEDNLALLQLYF RTLVTGA/LRPRWCPVLYAVTL WPHVNSFIFSQRPRIVDIDGKM GTLSCIQPFNRCLARRRTLCPNG RQETKEQKACLPGRSLFELF
23846	54214	A	23984	2	341	

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23847	54215	A	23985	114	712	DLISALMIWFHVIVIHPTPYVCIYI PTLPLSTSFPLSQLPVSLECYTV PPEDNLALLQLYFRTLVTGALR PRWCPVLYAVAVAHVNSFIFSQ DPQSSVSYISIFRGRKGASN*AA SGPAGEEVSVKQGQWWVPAL GSVPPLPVLL\DEVKAARRSM LQKTWLLADEGLRQHLLHYKL PNSTLPEGFELYSQMPLRQHY
23848	54216	A	23986	357	2771	FESSCPPVGGSPVGAGPTPSLYKV PCATAMKLLRVLASAGRNI RLLSSFDLRSRLCRIIAEAPQEL ALPPEEAEMLSTEALRLWAVA ASYGQGGYLYRELYPVLMRAL QVVPRELSTHPPQPLSMQRIASL LTLLTQLTLAAGSTPAETISDSA EASLSATPSLVTWTQVSGLQPL VEPCLRQTLKLLSRPEMWRAV GPVPAACLLFLGAYYQAWSQQ PSSCPEDWLQDMERLSEELLP LLSQPTLGSLWDSLRHCSLLCN PLSCVPALEAPPSLVSLGCSGGC PRLSLAGSASPFPFLTALLSLLN TLAQIHKGLCGQLAAILAAPGL QNYFLQCVAPGAAPHLTPFSA WALRHEYHLQYLALALAQA AALQPLPATHAALYHGMALAL LSRLLPGSEYLTHELLSCVFRL EFLPERTSGGPEAADFSDQLSL GSSRVPRCGQGTLLAQACQDL PSIRNCYLTHCSPARASLLASQA LHRGELQRVPTLLLPMPTEPLL PTDWPFPLIRLYHRASNTPSG\ LSPTDTMG\TAMRVLQWVLVL ESWRPQALWAVPPAARLARLM CVFLVDSELFRESPVQHLVAAL LAQLCQPQVLPNLNLDCLRG LTSFPDLYANFLDHYEAVSFGD HLFGAMVLLPLQRRFSVTLRLA LFGEHVGA LRALSPLTQLPVS LECYTVPPEDNLALLQLYFRTL
23849	54217	A	23987	291	454	KAETGSLPYTLCKNQFKMD*RL TC*T*NHKNPRRKPR*YHSGHR HGQRLHDENT
23850	54218	A	23988	1	613	

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23851	54219	A	23989	807	1345	RCEERLLPLNLAVIALPSGLER WSFFAVYNGHPGSQVAKYCCE HLLDHIADNQ/DFTGSAGAPSLE NVKNGIRTG/CPEPEVHDTERSE EDDHFIILACDSIWDVMGNEEL CDFVRSRLEVTDDEK VYNEIV DTCLHKGSQDNMCVIFLWFPN APKVSPEAAKKEAELGKYRLN SILSDQ
23852	54220	A	23990	344	636	SSLSLLDIWVGSKSLLL*IVPQ*T YVCMCLYSSMIYSPLGIYPVMG WLGQMVFLVLDPSGIATLTST MVELVYSPTNSVKVFLFLRLSS TCCFLT
23853	54221	A	23991	1	2793	
23854	54222	A	23992	18	409	SSVVEFVDPRVAPALLPQLPLES SSHGSLVPTMAVCLDKGHKMT KNMSKPRHSCRRGR LTKH\KFM WDMIREVCGFAPYERHAMVLL KVS KDKRALKFIKKRVGTHIRT KRRQEELSNVPAIMRKADAKK D
23855	54223	A	23993	1	609	MHPRGPPPPAQEESHTDESPGID HQSLARRAGRVGRTGGFSQLL AQTNTSMLSSSPASCTSPSPDGE NPCKKVHWASGRRRTSSTDSES KSHPDSSKIPSRRPSRLTVKYD RGQLQRWLEMEQWVDAQVQE LFQDQATPSEPEIDLEALMDLST EEQKTQLEAILGNCPARPTEAFIS ELLSQLKETPETQPASEISLRDH
23856	54224	A	23994	1	204	
23857	54225	A	23995	1	418	MWNRLCNWVTSIGWKSLEGSE EDRKSSQWGTLP SGAVRRGPPS SRSKNGRSNSSLHPVPGKATGT QLEPMRAVMGDESCATGTTEL LHALGAHPLHRL LKQHSHMMF QKVQVEPLRK\EPHHWQRL*PF SSE*NHGPSR
23858	54226	A	23996	104	253	

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23859	54227	A	23997	666	1436	WRPCFWLQAKKEAPAP\PKAK AKVKAL\KAKKAVLKDVHSHK KKKD\RKSPTRFG\PKTLCTR\KP PKCLQKTAPRKNKLDHCAITKF PLTTKSTTKKIEDNNTLVFIVDV KANKHQFKQAVKKLYDTDVA KNITKRWDVTSITSCYIHLRLA SRLALEDLLAGLMNCLKGTFW NEESGERVETRPESRFKQQSKLI YTIKNPGRKKYGAEEKRAFWC HTDLLLHDHDEQVNHFFSSPSST FTKCKRRKPFLREFVWIK
23860	54228	A	23998	2	301	
23861	54229	A	23999	1	242	MGMVRKQALERTEWALVCRQ AWSSRMGYSTTVSPTQCQYTC SRGLLDSQLQLYKCTQALPEIH SLGHVCPSLITVKYSHYVLA TLFIWDNNESSLRTGLLSVSTCK SGTRDFMRISGMVSLTSEVDNV EVFHYFPLHIQGGKFWAVGAI MTIFVISIYYEPGAHWHHMWK LLKVYSLESQKREEDISKRLPNF LKSSRRPWEDLILMLRKSPEMS KEYRASPLSLAALRSKDRQSR HRCVTSTFHIREVRCKSQGLP LCMHETAAHICP*TEGQQKGSG GLLYIP*TSPEIFSASESDPPMAC
23862	54230	A	24000	2	948	CGTPTVVPGTGTSRRVRTATVE PTWKCRAAQQPPPPP/PPLWVK LPPPDSTKPELQLEELDADSS WMPLHGSCPTGKLAVDARSSL FTEPAFPYWKKMKHTFQNILS WSKFTNLTVSVTQLWLLVMA QTSYPHSLVGRKQVILHSSCLY SLDNKTSLAGDDHDDDDHDDN DSSPAEKGPPPIKSLDKADEQS HLRLAVLELGFYKPVNLLLVA MTGCLLQMMKKEQCGTHGG EGSTLEGSRPDVPQDLFSPTLGF YGSTLSADLGENVILKLYLPSF PLQSESPSAEHGENLWALYVGF EERRSEASLAKAP
23863	54231	A	24001	265	513	
23864	54232	A	24002	513	796	TGTAWTPPPPLTTGAPCTPPPR CTARGRT/PGDHLGGGPAATA GGPRTSPMSSCGPSAPGMRPPA SSPKRNTTSLNLSGLEPTFSFRIT FGFM

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23865	54233	A	24003	1268	2097	TPELTGAISLSTLGDPSPFRQPSS AQMGLHLLSTSLSTPPTTSNSETT QPAFATVTPSSSSVLPGLPQTSF SGMGPSAELMASTSPKQQLPQF SAAFQHLSSHSGIPKDLQPSHS SIAPPTGFTVTGVKLQTFVSVT VLKATCLELFVPPGGFVVSLS GVKLQTVTPLHFSGNHPSAFYY YRLSFEMDKGKKRQFGVEKEK CGSLGGFVMLGNEEMIRRAVT LIAWTKIPFLGIREAKNPGSENI RLATILEAPPPSWELWEQGPPG APYYQP
23866	54234	A	24004	3	1163	GEVTSWNRGRGLRIWRYFLFGP VQKTMRLLLSRLTYCWLEQDG RVSWRLGLEIGSLPTVPVRLCP ANRSPPMVCGTTGRSSSNSSTE KRMCTCSSRAALHFLKGPEGG TLMEEIRALIKEPPESLTPSTRG GHSEKAPSKNHQAATVNTTTL RISHISHTLLIHCTGKEQHEPY EDAATRSRPEADLSRHERLTCR HLDLGLPDMQNRQCVPQSGL RPVGGLEGPRHWCLVRSSRLG VLPRRPQGCEDDAGGLQRQDC GQWRELVLPTPP/VCPPGGASP HPKPLPDLDPGSSRCFCLLP TCPAAPPAGSPSPCSQSPGCLPP VPTPSVLECCTQVLLEDSPQS HRNSAPHLQPGIWSHIPGSHPW CLVLAAEGSTSSV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
23867	54235	A	24005	1	2502	MEARVERAVQKRQVFLFCVFL GMSWAGAEPLRYFVAEETERG TFLTNLAKDLGLGVGELRARG TRIVSDQNMQILLSSLTGDDLL NEKLDREELCGPREPCVLPFQL LLEKPFQIFRAELWVRDINDHA SVFLDREISLKILESTTPGAFFL ESAQSDVGTNSLSNYTISPNA YFHINVHDSGEGNIYPELVLNQ VLDREEIPEFSLTLTALDGGSP RSGTALVRILVLDVNDNAPDFV RSLYKVQVPENSPVGSMMVSV SARDLDTGSGEIAIYAFSYATE RILKTFQINPTSGSLHLKAQLDY EAIQTYTLTIQAKDGGGLSGKC TVVVDVTDINDNRPELLSSLT SPIAENSPETVVAVFRJDRDSG NNGKTVCSIQDDLPIFKPSVEN FYTLVTEKPLDRERNTENITIT VTDLGTPLRKTEHNITVLVSDV NDNAPAFQTSYTLFVRENNSP ALPIGSVSATDRDSGTNAQVIY SLLPSQDPHLPLASLV SINADNG HLFALSPWTTMPLRAFEFRNNS PALHIGSVSTAETNIQVTYSLLP PRNPHLPLASLV SINTDNHGLF ALRSLDYEALQEFERVGASDR GSTALSSEALVRVLVLDANDSS LFVLFPLQNGSAPCTELMPRAA AEPGYLVTKNAWLS*QLLKAT EPGLFGVWAHN/GTDRLLSERD TAKHRLMVLVKDNGEPPRSAT

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23868	54236	A	24006	1	1960	MEARVERAVQKRQVFLCVFL GMSWAGAEPLRYFVAEETERG TFLTNLAKDLGLGVGELRARG TRIVSDQNMQILLSSLTGDL NEKLDREELCGPREPCVLPFQL LLEKPFQIFRAELWVRDINDHA SVFLDREISLKILESTTPGA ESAQSDVGTNSLSNYTISPNA YFHINVHDSGEGNIYPELV VLDREEIPEFSLTLTALDGG RSGTALVRILVLDVNDNAPDFV RSLYKVQVPENSPVGS SARDLDTGSGNGEIA RILKTFQINPTSGSLHLKAQ EAIQTYTLTIQAKDGGCLSG TVVVDVTDINDNRPELLLS SPIAENSPETVVAVFRIRDR NNGKTVCSIQDDLPLKPSV FYTLVTEKPLDRERNT VTDLGTPLRKTEHNITV NDNAPFTQTSYTLFVREN ALPIGSVSATDRDSGTNAQ SLLPSQDPLPLASLV HLFALSPWTTMPLRAFEFR PALHIGSVSTAETNIQVTY PRNPHLPLASLV ALRSLDYEALQEF GSTALSSEALVRVLVLDAND LFVLFPLQNGSAPCTELMPRAA
23869	54237	A	24007	1	966	MGHHLMDKLVALGGLYYAIQ RHYATKCSVLKNDQILVIGLFM IQNVIYRKHFANPLSALFLQGGI ELFAAIAEIHITTVAERNHAIQI RLEAQTIFDSLKEWHNAIRKSL DYEALQAFEFVRGATDRGFPAL SSEALVRVLVLDANDNSPFVLY PLQNGSAPCTELVPRAAEPGYL VTKVVAVDGDSGQNAWLSYQ LLKATEPGLFGVWAHNGEVRT ARLLSERDVAKHRLVVLVKDN GEPPRSATATLQVLLVDGFSQP YLPLPRAAPAQAQADSLTVYL VVALASVSSLFLFSVLLFVAVR LCRRSRAAPVGRCSVL

SEQ ID NO:	SEQ ID NO: of peptide sequence.	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
23870	54238	A	24008	1	2673	MEVMGNMGSKILITGITSTKRK VALLAKKRERKIIISQRKDVTD RAKRQSEESIGKETVVIGIGLI SKDSAAICESRWRLSESHFER LIQRRMEARVERAVQKRQVLF LCVFLGMSWAGAEPLRYFVAE ETERGTFLTNLAKDLGLGVGEI RARGTRIVSDQNMQILLSSI.T GDLLLNEKLDREELCGPREPCV LPFQLLLEKPFQIFRAELWVRDI NDHAPVFLDREISLKILESTTPG AAFLLESAQSDVGTNSLSNYT ISPNAVYFHINVHDSGEGNIYPEL VLNQVLDREEIPEFSLTLTALDG GSPPRSGTALVRILVLDVNDNA PDFVRSLYKVQVPENSPVGSM VVSVSARDLDTGSNGEIAVAFS YATERILKTFQINPTSGSLII.KA QLDYEAIQTYTLTIQAKDGGGL SGKCTVVVDVTDINDNRPELLL SSLTSPIAENSPETVVAVFRIRD RDSGNNGKTVCSIQDDVPFILK PSVENFYTLVTEKPLDRERNTE YNITITVTDLGTPLRKTEHNITV LVSDVNDNAPAFQTSTYTLFVR ENNSPALPIGSVSATDRDSGTN AQVIYSLPSQDPHLPLASLVSI NADNGHLFALRSLDYEALQAF EFRVGATDRGSPALSSEALVRV LVLDANDNLAPFVLYPLQNGSA PCTELVPRAAEPGYLVTKVVA VDGD SGQNAWLSYQILKATEP
23871	54239	B	24009	1	993	
23872	54240	B	24010	1	4056	
23873	54241	B	24011	1	906	
23874	54242	B	24012	1	4318	
23875	54243	B	24013	41	1935	
23876	54244	A	24014	3	328	GWQSGPVLGGLCGTAGQSCGD GDGIWWAQAAQAGDPAHLRL LTHGQPSSVPEAPVRAHQPALP QPRSAARECGR/AGRSTTNSL RKRVAESYMIVAPPMPSWSS SG
23877	54245	A	24015	114	567	VKKPHSAEWVPLWGLQPGWR QPFRCSNGSEKELRRPVNSQEI LSPVTMRKPAVSVCCDLTLREA APPFQRHERTYTGEKPYKCKQC GKA FSGFCYTQILEKAQTGKQP YE/AHERTHWKQNH DCTQFGK AFS FSSSLCIHEKIHTGEKLYE

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23878	54246	A	24016	170	491	PAQHQRGLWQSPTHQALTLML SVHREDWKPVLTINSIHYGLQYL FLESKNRWLGLERLGFCPSGLIT PPTCTGHRSP/NPEDPLNKEAAE VLQNNRRLFEQNVQRSMR
23879	54247	A	24017	1	1062	
23880	54248	A	24018	2	700	RRPTRPGGGSGGGGGRMIKLF LKQQKKEEESAGGTKGSSKKA SAAQLR\IQKDINELNLPKTC DISFSRSQTLLNFK\LVICPDE GFYKSGKFVFSFK\VGQGYPH DPPKVKCETMVYHPNIDLEGN V\CLNILRGDWEASPLRLNSI HYGLQYLFL\EPNPEDP\LN KEAAEV\LQNNRR/VCFEQNV QRSMRGGLHPAPPTFERCLK IGLAHTHPPPRPQALASPAKY LLGAMG
23881	54249	A	24019	302	884	PMAPLSSQOQTLFPNTLTQAQ QVQLTKGLRKWMVQHGGDGW VVEENRTTVPGAPSQTCTFVTS F/EVNAPAIQSWCCCKQVLDLE EEGLWPELLDSGRIEICVSDWW GARHDSGCMYRLLVQLLDANQT VLDKFSAVPDPIQWEQQCLPF TFTHVFFQHRSRWGVRFCVFSE H RGP GTHSSGAGPLLSPCEQL QC
23882	54250	A	24020	274	866	SLLNLPSSWDYGWVSYEQAN CKGEQVFVEKGEYAHWDWWT SSQRTDFSSLR/RPSKVDSQEP KVYLYENPNFTGKKMEIIDDIV PSFHA\HGYPEKVSSVWVRSG MWVGYYKYPGYRGLQYLLKKG DYKDSSNF\GARHPQV\QSVRCI HDMQGHQCGAFHPLGTQEEEE AGQKEQMEQVPFWLARGDICE LSGKKSIV
23883	54251	A	24021	179	374	AASIGRSMTEKAHAGPRPGRN* ADAPSSSDTLFPPDALLSNQAG RLACWLFSYGPQTKNDFHIFK
23884	54252	A	24022	1	141	

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23885	54253	A	24023	1	506	PHSPLWKTLCSPSSGVCCGFVT LFCNDRFACLFQLTPPPSPAWM TAAASLLASLLPALPPLNLQDA KFVEERRKQLQNYLRTVMNKV IQMVPEFAASPKKETLIQLMPFF VMGLQVGMYGLFHFGVMMDQ PQPSLTRADESPCDRVLSPCAA HRKQRDCCLSWKAEPE*FLVK* KTLCSPSSGVCCGFVTLFCNDR FACLFQLTPPPSPAWMTAAASL LASLLPALPPLNLQDAKFVEER RKQLQNYLRTVMNKVIQMVPE FAASPKKETLIQLMPFFVMGLQ VGMYGLFHFGVMMDQPQPSLT RADESPCDRVLSPCAAHRKQR DCCLSWKAEPE
23886	54254	A	24024	1	396	
23887	54255	A	24025	1	1176	MVPGDLSQTSQSLSDFEISN RALINWIPSVFLRGKAANAFH VYQQSIAGVSGIARKRALIPFGK STFSYVCITNIKLTALPSWDYT CHFNLPKAQKPGEPTKCILTME WLALLQGDPGSWIQEFIVGKR GGKMDNILWDQRDVQPPGLRP HQLLHSGGGPLISFRNGGPILV WELRRKGASGKEIVGSRYFRES DEVLVWKNPKTLQKEDEEVNS THPMHTYPCTHCQVFCVTAETI NIYLQACIVLEMSMLPPGERPLF LLRLTTVLEVTVFDSQWSRPYH VSADPSAWKHHHHYHHHHY QLSSSSPTITINHPSPLSHASPS P/CHPSPSPAVHHHHQPSITITSR PSPSPAVHHHHQPSITIIIRPSSITI INHPSQASSIHHHHQPSIPFIVSH
23888	54256	A	24026	1349	2125	
23889	54257	A	24027	670	972	KTDEWNIYRRYTEFRSLHHKLQ NKYPQVRAYNFPPKKAIGNKD AKFVEERRKQLQNYLRSVMNK VIQMVPPSSLPAPKKETLIQLM PLLRTSTPPRRAL
23890	54258	A	24028	1	699	

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23891	54259	A	24029	221	864	VDCPRSFSASVVVWQGRFWLIS FIPGGFLGMLTFFASGMNWTVT LLGFLAGNLEVEPSDTIENVKA KIQDKEG/PPDQQRLLIFAGKQL EDGGTLLSDYNIQKESTLHLVLR LRGGMKIFVKTLTGKTITLEVE PSDTIENVKAKIQDEEGIPDQQ RLIFAGKKLEDGRTLSEAIFLDV GLLLSCRTVSSCGAFILGWSVVI LIPVISTRDDTSTTK
23892	54260	A	24030	2	864	PSFRLAWPEGRLLALLGELVCVP VVGGRGMENGRILVSADRSGGHI CLKTLTGKTITLEVEPSDTIEN VKAKIQDKEG/PPDQQRLLIFAG KQLEDGRTLSDYNIQKESTLH LVLRLRG/GMQIFP*RP*PAKTI TLEVPESSHHRKF*RARFQGKE GIP/PPDQQRLLIFAGKQLEDGRT LSDYNIQKESTLHLVLRRLRGGM QIFVKTLTGKTITLEVEPSDTIEN VKAKIQDKEGIPDQQRLLIFAG KQLEDGRTLSDYNIQKESTLHL VLRRLRGGC*FFSHGIRSAQ
23893	54261	A	24031	1	124	
23894	54262	A	24032	97	296	
23895	54263	A	24033	71	269	AAGYRCPRHGARRTAATR CHPSPAVARPAGCSGPP*CYAL SPDPARTRRGDPQTTPCRLPRA G
23896	54264	A	24034	206	667	STRGLPKCWDYRREPPRPAKS SFLTAQACEAQKTGSATRRKD CFLQPTFWLLPFLVLEKGAPSA CRGKRYVRAVWLSLSTGAILQP YPKLQVSNWL*CARDQEMPEG CL*QSCQTLSELLVLPPEKKDV *EISPWTPAPPEHQYTVRTFQSP
23897	54265	A	24035	3	190	GTFKNDLILLISKSY*APLPSD FSHSDTSS*KPSKSLKTYPSPPF SAKTSLLQCPRNILY
23898	54266	A	24036	197	474	SPLSHRGASELLSSLHLRSCSS PKMAETPEAGFQIVHSASPQPG TAPGNPWAAGAGG*HCEPGQL AGPYRAASFFGQAWPPHPRAK LGVSRL
23899	54267	A	24037	164	323	GQEIKTILANMVIPLRY*KYKKI SWAWWHAPVVPATWEAEAGE LLEPGRQLQ

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23900	54268	A	24038	582	1166	HCEPGQLAGHLGQPLSSGRLGH LMASHKLSNNYYRTRDGRRES VPPSIIMWSQKALVSGKPAERV YGDANHTVGNMCASRLGGYL GFSIRIVVFIWYLGLSVVVNML VGRQCDWQGLVYGQPELLVFS GNMPGEVARGKHRNEKAPLSM RPASQCRVFCVLKGCSESRHK EQTPDITIFKNCNTHCEGPWLH
23901	54269	A	24039	1214	3878	
23902	54270	B	24040	62	1242	
23903	54271	A	24041	74	408	
23904	54272	A	24042	790	1877	DEIVDPGSMKWSYKSQLNYKT KRPSVFVTALTHRPDILILGTLE SGHSRNLTCVWPWACKQGTTP MISWIGASVSSPGPTTARSSVLT LLPQSPQDHGTSLTCQCTLPG TGVTTTSTVRLDEAYPA\WNLT MTVFQEGGTASTTLRNGSALS LEGQSLHLVCAVDSNPPARLS WTWGSLLSPSQSSNLGVLELP RVHVKDEGEFTCRAQNPLGSQ HISLSLSLQNEYTGKMRPISGV MLGAFGGAGATALGFLSFCIIF VGVRSCRKKTARPTMG\VGDT GMEDT\NAVVRGSA\SQGTPELN PRQKEQAPQNHGSANALANPP RPEEGEIQYASLSFHKARPQYP QEQAIGYEYSEINIPK
23905	54273	A	24043	183	1176	VHQLVFPRQHQRHSVFPKANSS WIHQLFPQ\QHSYGPSAVSAGQ HQLMVHSLFPQATPAHASISLV FRQGTHQLHRVHQRRIPSAQH RHRLHQRRLPSAQHQRHRDSIS VCFPFRAHTRPHCDSIQRQHQL MRSIGLFSSGKTDPTVTLLKEA AAEHEICLCSRHPVNLRETKAH LGNAAHAVFPRGNQKKPEMCP YLPTHKLVVPTPLIPLEAALRN IAHSRSIPPPKKFSPTPDTSDDYL LVFNSFPYSKLTTPKTGQGENL GSTRPIPCNGPPTRGPHNGAKY PGDVSHPVGVGTLWANRLLTG QYEENGKSFFLLICTIATFQVNA
23906	54274	C	24044	178	342	
23907	54275	C	24045	86	283	
23908	54276	C	24046	91	177	
23909	54277	C	24047	11	169	
23910	54278	C	24048	209	673	
23911	54279	C	24049	164	208	

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23912	54280	A	24050	182	255	DAESRRSWQPLPEPLELRPARLSD
23913	54281	A	24051	146	456	LKNHKRSEKPCPTLTDDIPPQK KCKWPVLALSADITL*KSFSWL ILAQKAPPLSTL*PPLLPAEQM SFDLIFLYLPKSYKVAPPLSSFT ESLFGLSPPAPR
23914	54282	C	24052	90	215	
23915	54283	B	24053	1	1059	
23916	54284	C	24054	129	215	
23917	54285	C	24055	19	347	
23918	54286	C	24056	228	260	
23919	54287	B	24057	406	602	
23920	54288	C	24058	7	375	
23921	54289	A	24059	322	400	FLLSRVPSV*DPTENQTVQLTW EWLP
23922	54290	A	24060	818	1078	ILDVFSYTMKIEPSPLRSYPISPH YNL*QLPP*LDP*ESGYKTPLSA LLLTFLLYISSFASHKVSSSSVD PLPTCAYLPIGQAHVH
23923	54291	C	24061	1	411	
23924	54292	A	24062	1	861	
23925	54293	A	24063	425	484	
23926	54294	A	24064	1844	2097	HSAGTKLRLVNFLLTLRRLVNS VMRLKKSFMVMVQRMVSIPKV WSISLGFLLSFVPSVWDPT/ENR TVQLT*HPLPEPLELGPRLSD
23927	54295	A	24065	729	807	LFSCSCPPKPPRP*LTAEGGLC IFL
23928	54296	B	24066	1	1317	
23929	54297	B	24067	509	810	
23930	54298	A	24068	1	385	MDLPSTVRVTRSSASVMVQGG SEAIRQRQSSAAKPRRSGKESKS LGPEFQGLWEWLPEIYFSQFRR LGNPKSRHQIQCLMGACFVV TERLSFQDSLDAEPRHSYPLQ VKRLDLPTVLETETDLEKLDPF TTIPSPVETLQCLFVSLRIKSRVP *FWISQPPPEL*EINFWQPLPEPLE LWPKAL
23931	54299	B	24069	1	774	
23932	54300	A	24070	350	640	SLQGCLSDNSPTFORCQTTQGR LPWSFTLSGKSHFSGGVARACY TCQKSGHWA\RNASSPGFLLSR VPSVSDPTENRTVQLTWQPLPE PLELWPKAL
23933	54301	B	24071	85	331	
23934	54302	B	24072	1	1844	
23935	54303	B	24073	1	1169	

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23936	54304	A	24074	63	220	NLTGNIWNREWYSHFDFDLLD PVGFGSGIAKMPKRKLFKCHSV *GHWRSKSE
23937	54305	B	24075	497	898	
23938	54306	A	24076	3	678	GGGFSDRDRTIALQPGQQIWM WGIGKQVGGCGWLRGKNRVV GAAKDQSGTGEEKFYFIPKAMG AMEGSGQRRTPDPGAHRNPS GGYSATDCEGSRPAPGEINSHA SHTKPVWWFFTQTRMKFGAVT RIGGLPWEVNPLSSCSLLRE/KD PPTTSGPQSNQPRKH/LTNFKSG A/CYTCRKSGHWAKECPLPGFL LSRVPSVWDPTEN/RTVQLTWQ PLPEPLELWPRLSD
23939	54307	B	24077	522	873	
23940	54308	B	24078	329	530	
23941	54309	C	24079	147	439	
23942	54310	A	24080	3	3889	
23943	54311	A	24081	2	394	
23944	54312	A	24082	1	197	
23945	54313	A	24083	1	205	CLRAGPHALYLLC/NIPEFTFL\S RADFARSQVLVDLLTDPFQ\QEL EELLQVGAVTLILRILPCLPCLP
23946	54314	A	24084	134	182	SCFIPSSQPVAGTERSRLGPQY FQTPHNPSGPGLGNQLMR*AF
23947	54315	A	24085	257	481	
23948	54316	A	24086	415	630	
23949	54317	A	24087	123	340	
23950	54318	B	24088	49	270	
23951	54319	A	24089	1	900	RSRVRRREVVALRRGLACIPSLG VWRFPSVGVLAVSDRWCLAVS DRWCLARATLSCFGCAMPYQ TRRQENDLRTASIAV*RRKQQN DH*KQRRWQNIQRKGPKRYIVI AGNSQSHQPMIFSMLRKLKPKVT CRDVLPEIRAICIEEIGCWMQSY STSFLTDSYLKYIGWTLHDKHR EVRVKCVKALKGLYGNRDLTA RLELFTGRFKDWMVSMIVDRE YSVAVEAVRLLILILKNMEGVL MDVDCESVYPIV*ASN*GLASA VGEFLYWKLFYPECEIRTMGGR EQRQSPGAQRTFFQLLL

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23952	54320	A	24090	1	812	MARTPGAELAVAKYPPKGSQA VHRHSRKQSEPPANDIFNAAKA AKSDMQHREVRVKCVKALKG LYGNRDLTARLELFTGRFKDW M\VSMIMDREYSVAVEAVRLLI LILKNMEGVLMVDVDCESVYPIV LFYPECEIRTMGGREQRQSPGA QRTFFQLLLSFFVESKLHDHAA YLVDNLWDCAGTQLKDWEGL TSLLEKDQSTCHMEPGPGTFH LLGESPGISAIVQGAIEKSGERSS PPPKRIGSMKEGPMVLPALDT QCWFPVEVPLD
23953	54321	A	24091	152	1209	MPLKNVQNITHFPLEKELALPL LIFSPLHWCVSGYLSLPLPNPKP HFSNPLLLQVILPALTLVYFSIL WTLT\HISKSDASPGECGS*MG* WEQRNLCPSILPLQSPCLPTEAA VEFEGTRMVAFCCLC\QSCCLSD VDTEIP/ESR*VLAQSGRKKAEY PCPPFPRRN*QCHYLPWETFCPF KHPFFSPLQAFVLLSDLLIFSP QMIVGGRDFLRPLVFFPE\ATLQ \SELASFLMDHVFIQGRPGQW CSDSIPGAQ*GLGLGCSSKI*GR KLKSVIPFCLPCEPGDSQEDHLQ IERLHQRRRLLAGFCKLLLYGV LEMDAASDVFKHYNKVHQQPS LGFTKPLVMPRFSAA TV
23954	54322	A	24092	37	625	SLMLLTPFHFPPEECPPPIPTAH HLLPFLSTWELFLQQLQEVVV KHAEPVLEAGAHALYLLCNP EFTFFSRADFARSQ/LV*DLLTD\ RFQQ\ELEELLQGRELGAGTMG DTPNKGWGGGCKTGGMWDL MSSGGKCYCGIFFSFSILPSQIED EVYNLGSHSETPLCLLQVSGFP PLPHPVFTGVCVGVSLSCSFPV
23955	54323	A	24093	2	198	PNDRSRVTREMSAPSRSLGRFL SVGVWHAPPSLALVPPCRCTRL KTYHGRGAPLRVELPTCMYRL SNVQGRSGGPAGVGHLQSLV DEWLDSYKQDQ\ DAGFL\ELVN FFI*S\CGM*RNSGDYPLTAPGL SWKKFQGSFCEFGTLVCRCQ YILLHDDFPMNLISLLTGFSDS QVCAFIRHTSTLAAMKLMTSLV RVALQLSLHQDINQRQYEAER NKGPGQRAPERLESLLKHKEL H*YQAKNLSRARCASTCGASH
23956	54324	B	24094	211	3841	

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23957	54325	A	24095	1	1798	MSLLAFKILVGFEGSKARVQT DLFYRSLVLFLLQICFPLSCFG NWKGEEGMQRWVLGKNEKI ASPHRLPAPTARFAVSLQLNLRI LGAFQFGPVLFLVWRPLDRDN AS PQSEFLNSCGITAYLVGKRE GGVERGGGGRSSERCRTL SFS PRHSHVFSTSRFCKILKKSPGAN GGRCRARGGGLHGARAANPPT PIAEPARLPACLSRAEPEPQAAE PAPPPVGVVRSRPLSHRRHPVV CPAAPIRLINKRLAHSARPAGIC CVSRSGLSALAAAGTASMFQLP ILNFSPQQVAGVCETLEESGDV ERLGRFLWSLPVAPAACEALN KNESVLRARAIVAFHGGNYREL YHILENHKFTKESHAKLQALW LEAHYQEAELRGRPLGPVDK YRVRKKFPLPRTIWDGEQKTHC FKERTRHLLREWYLQDPYPNPS KKRELAQATGLTPTQVGNWFK NRRQRDRAAAAKNRSQTSPWA EAFRFPEGSRSLAKHFAEEPGLI PQAQMLLTILFAFRSGRPDPTRS REHLLRRKPQADAPLEM LQQQ VLSQGSGRALRAEGDGTPEVL GVATSPAASLSSKAATSAISITS
23958	54326	A	24096	3	1034	GLHGARAANPPTPIAEPARLPA CLSRAEPEPQAAEPAPPPVGVV RSRPLSHRRHPVVCPAAPIRLIN KRLAHSARPAGICCVSRSGLSA LAAAGTASMFQLPILNFSPQQV AGVCETLEESGDVERLGRFLWS LPVAPAACEALNKNESVLRAR AIVAFHGGNYRELYHILENHKF TKESHAKLQALWLEAHYQEAEL KLRGRPLGPVDKYRVRKKFPLP RTIWDGEQKTHCFKERTRHLLR EWYLQDPYPNPSKKRELAQAT GLTPTQVGNWFKNRRQRDRAA AAKNRLQQQVLSQGSGRALR AEGDGTPEVLGVATSPAASLSS KAATSAISITSSDSECDI

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23959	54327	A	24097	3	1024	GTRVGVAWRSVRLLLGPGAGL RGGVVLKVSPSPCRGGRRVPVR AEGARGRGPINKVPGASSGAA VGAARLTAPLLAKAMASKLLR AVIL\GPPGLGKGAPVCQRI AQN FGLQ\HLS\SGHFLRENIKA\STE VGEMAKQVYREKVFLVPDHVI TRLMMSELENRRGQHWLL\DG FPRTFGQAEALDK\ICEVDLVIR LNISFETLKDGLNRRWIHP\PSG \RVYNL\DFNPPHVHGIDDVTGE PLVQQEDDKP\EA VAA\RLRQY KDVAKPVIELYKS\RGVLHQFS GTET\NKIWPYVYTLFSNKITPI QSKESILT LAQWEEPGRCSFIP IVWCSNWCCCPNLEA
23960	54328	A	24098	2	178	
23961	54329	A	24099	96	340	FGALTRIG\DL PWEINPLSSCSLL PEKDPPTSGPQTDQPK EHLTN FKSAARRSSRTSSHRNLLHVLEI WQLDQGM PAARDS
23962	54330	A	24100	3	155	
23963	54331	A	24101	1	162	
23964	54332	A	24102	1	1032	
23965	54333	A	24103	167	476	TAMLLTQSLFGGLFTPTHMKFG AVTQIG\DL PWEINPLSSCSLLR EKDPPTSGPQTHQPK EHLTNF KSDHHGCRASGNSHSGRMLLIF SPSRGLYACSCVKT
23966	54334	A	24104	371	772	
23967	54335	A	24105	146	312	QKRSIPNSSPIP*SHSLLANCTK/ DHHFLNGSKSFQPQLLSCKFS* GQHFLFQ GALCT
23968	54336	A	24106	76	441	
23969	54337	A	24107	1	1284	
23970	54338	A	24108	150	371	EESRAAGIPWPSGQISGTCSKLA CGRRFWRNAWPLRFRHLEVLV CWRCGCLSHSGGKELQLFSII VHLEGEVN
23971	54339	A	24109	280	351	
23972	54340	A	24110	1	483	
23973	54341	A	24111	129	363	FGVVTQIG\DL PWEINPLSSCSL LCEKDPPTSGPTKKHLTNFKS SKRPLFTLFSNLPHYPSTSFSFQS WRYTSISPF S
23974	54342	A	24112	2	111	
23975	54343	A	24113	3	808	

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23976	54344	A	24114	497	815	TALLLTQILFGGLFIWTRVKFG ALTWIGDLPWEINPLSSCSLLH EKDPPTTSGPQTDQPKHLTNF KSACFERIKACYHSPATAWPFK AYKLSLQFPHTCPKTR
23977	54345	A	24115	1	753	
23978	54346	A	24116	1	513	
23979	54347	A	24117	625	701	IHVAHKLAVVMPGCKRGCLSL FYFQLIWSHKGWVRSGEASHR EMAGLLLLCSS*PPSPCETLPRS EPSLCDRSRAESRTKTSNLSCIP ASLQQVCGPREFIWSGNHCHPF LPITRCYGCLCYHYCMENSIL
23980	54348	A	24118	458	605	VVEEGIEDKRVYRLGTTGWIGK TIWLVRRRS*TNL*DLSGFWTG KMGEI
23981	54349	A	24119	566	769	IKEKGGLFSFSASN LWQVTSS FLCSPLPLSLLKSSKLLANRDKY RMCGPVPANGNRTQQ*SKHVR
23982	54350	A	24120	345	664	GEIAASQEPAGGFSGSSAQPCPL PWTGPPTTQAPGH/CNSAPSSRD NASSNGGRRQRVPTVPGGGLIL QREHILLPLGPALRAAGKEPAT AATIPESPGGSDSDSRT

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23983	54351	A	24121	2	2204	IDMIFTPGPPSTPKHKKSQKGS AFTFPSQQSPRNEPYVARPSTSEI EDQSMGMKGFVKVERQVQDMG KKLDFLVDMMHMQHMERLQVQ VTEYYPTKGTSSPAEAEKKEDN RYSCLKTIICNYSETGPPEPPYSF HQVTIDKVSYPYFFAHDVPNLP RGGPSSGKVQATPPSSATTYVE RPTVLPILTLLDSRVSCHSQADL QGPYSDRISPRQRSITRDSOTP LSLMSVNHEELERSPSGFSISQD RDDYVFGPNGGSSWMREKRYL AEGETDTDTPFTPSGSMPLSST GDGSDSTVPLFLSSEILQKQVG QSITSMGLFLSRGSPMKLCMGL ACVLSLWNTVSGIKGEAKKEK GMTFLPTTDSKKFFSLLSVTSYS SFAFHKFSVAVYNISNLKTVDP AKFPTRYCYCLNNRTNDLSDF ALLVDIIGNSTSYLTEIFKSTSIL SVNQSNESDCIFICVMTGKSGR NLSDFWEIEEKYPIINYTFTSGL SGVLALLLTQSLFGGLFTRTRM KFGAVTRIG/DLPWEINP/LSSCS LLHEKDPPTTSGPQTDQPKKHL TNFKSAARPTFLGQGVPLNPF SFTLSGKSCFPRRQEPNRLFP PNLLSLCPNPLFLCPNPFSTFLE GKNHHHPFVSQVFSGLGLPPS LWEHSPMAHRLRVQPRQPPDI HKQVISLQSGHSLLVKSQSWSQ DPIKFQLPHHHKNTASVCINPSV
23984	54352	A	24122	2102	2529	ETTMSFIFSLLYPFRMHLSFLIVS PALRSISRRAAFAFPRGRSLDLQ PAMPEPPTPS/CGLLCVPS/PPMS AAPCSKVPSHLFAFMSCNTAK VCSFTAASETTSPPGGTNNR RATLRAVTLTRRSATLTRRSAA SHRSSTV
23985	54353	A	24123	299	567	TAMLLTQSLFGGLFTQTRMKF GAVTQIADLPWEINPLSSCSLL HEKDPPTSSGPQTDQPKHLTN FKSGETKEMHFIRGPKTPAPVM
23986	54354	A	24124	684	822	KVKRQSYSQNTFYYPICSRH*IK LQKLNSGPQTPQQDLINLAIKV

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23987	54355	A	24125	1163	1826	TVLLLTQSLFGGLFIWTRMKFG AVTR/IRGDLPEINPLSSCSLL HEKDPPTTSGPQTNQPKELLTN FKSVPTPSVAESFQSSSFSTDP SDPSSPPQAAPRQAKPGPNSSSASA PRPYNPFITSPHTWSGLQFIISA TSPPPPAQQFPLKKVAQVKGT KWLKTDAAARSPQKPTGTITDAL DNSHSGGPIMDRPLLVKSPKQF LRLLVFSKTFISLTILNLQE
23988	54356	A	24126	636	922	TATLLTQSLFGGLFTRTRMKFG AVTRIGDLPEINPLSSCSLLRE KDPPTTSGPQTHQPKHLTNFK SDKGDMFYPTWTQNSSAGHGLG RQPSLG
23989	54357	A	24127	728	1013	MKFGAVTRI/RGDLPEINPLSS CVLC/CREKDPPTTSGPQTDQPK EHLTNFKSGKRPAFYSLQPPSL SLNLFLLSILAPHFNLSLLLISIP IFW
23990	54358	B	24128	1	3993	
23991	54359	B	24129	105	420	
23992	54360	B	24130	45	2866	
23993	54361	B	24131	1	1680	
23994	54362	A	24132	1257	1403	
23995	54363	A	24133	1	2130	
23996	54364	A	24134	1	725	
23997	54365	A	24135	2825	4123	RAADGVITLEDNDPCVKKDSSR FPYEDRLDLVLKGTADIPRLTV HRGSEYIISRATFPCYFIKEQSVI NHCYTEIDLKIFRQYLAPALGV THRFVGTEPFCRVTAQYNQDM RYWLETPTISAPPIELVEIERLRY QEMPIYASRVMFIFRPDNTALP RNDTPQMVKLFMDRFQVVKDI GVIELKVVEDQRTAVMIKFRA FVKEGAVIVIRFDNKEVAFQOM SGNLTVPRSTSDYKARDIFFQY RFLTRISTGHGVANNHQIRLRL ELAGIVPLNQLNALLKVVYPLS KLCNSPKKCQLESVFRLTQWV VKKPISNRQSGLGGLVLPGLFRV LSPGNLSPIKGTIVLPNEVQPGF LGNLVGPI/RGWIGLS*IYLP HGF TG*QNSAGLADH*RASASPERA GVYPIHNERCAHRASRY* KWHPDSVAADHLLG

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23998	54366	A	24136	137	1199	ISSGGPRELGLKMIIVPGSQLSQ LPPGLDSTEFAAIVGNLLDNAF EASLRSDEGNKIVELFLSDEGD DVVIEVADQGGCVPESLRDKIF EQGVSTRADEPGEHGIGLYLIA SYVTRCGGGITLEDNDPCAPLT LLIVEDETPLAEMHAEYIRHIPG FSQILLAGNLAQARMMIERFKP GLILLDNYLPDGRGINLLHELV QAHYPGDVVFTTAASDMETVS EAVRCGVFDYLIKPIAYERLGQ TLTGFPQQRKHM LKSIESATQKQ IDEMFNAYARGEKDELPTGID PLTLNAVRKLFKEPGVQHTAET VAQALTISRRTTARRYLEYCASR HLIIAEIVHGKVGVRPQRIYHSG
23999	54367	A	24137	2	243	RPGRGLGQRGIWEPAAVLLDSV AQQQGAWLPHVADFRWRVDV AISTSALARS LQPSVLMQLKLS DGSADLEKRCERRLQD
24000	54368	A	24138	1	1483	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPVI GVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGNPDQGT SMYHGWWPDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPGLDI IPSCALHRIETELMGKFDEGKL PTDPHMLRLAIETVAHDYDVI VIDSAPNLGIGTINVVCAADVLI VPTPAELFDYTSALQFFDMLRD LLKNVDLKGFEPSDLRYLQSC EWGDTGIFLKWSCIPAEGQLQT SGAWVEAADIPLLPGSPRRLSP QAGSRGGQGPKHGQQLKMP GPRAPGLQGGSNRDP/AP/GPAV ERAPAAALSSTTIWMPMSLCP WRPVLAactsMTVRGRSTMYL PTTTGNAGCTWPKASLATRWL SSPMGRQARSLMLGAQVTLWS DRSMPWRRRRGRSSGRNLSTI

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24001	54369	A	24139	727	1498	GICIWDRPPGLADQRRSHSHGW WGELATPLPWHH/HLSDSHSG\ RVSFLGAQLPPEVAAMARLLG DLDRSTFRKLL\KFVVSLLQGED CREAAAAVLGSAPTCCR\AAGC \LLAGMHTLLQQALRLPPTSLK PDTRDPAPGALHPPRPGRGLG QRGIWE\PSGPSFDSVAQQARV AWLPHVA\DFR\WRVDVTIST\S AL\ARSLQ\PSVLM\QLKAFQNG SSIPAFEVPPQPKF\QEL\RYSVA\ LV\LKEMADLEKK\CEARNLQD
24002	54370	A	24140	1	312	
24003	54371	A	24141	2	524	
24004	54372	A	24142	144	494	AGSCPFAAGPGPLGSGRCFVLIR FIL\QNRAGKTRLAKWYMQFD DDEKQKL\EEVHAVVTVRDAK HTNFVGVSFTFKIILPPLCWPLL LASVWMFNDNKPGLYLGGPFH NFRGRS
24005	54373	A	24143	1	428	
24006	54374	A	24144	108	422	
24007	54375	A	24145	3	387	
24008	54376	A	24146	3	337	TRLMLLDRSGQGK VYGLVGR* RFQQMDVLEGLNLLITI*RNRN KLRVYYLTWLRIKIMDNDPKLE KKHDWTTAGYMEGCGHYRVG KYERIKFLVIALKSSAEVYAWA PKPY
24009	54377	A	24147	1	340	ERTRMNKQHNSTLAKSRPGNT GPEPLMPQASPGPPGPLSQTPP MHRPVEPQEGPHKSLVAHRVP LKPYAAPVPRS\QSLQDQPTRN LAAFPASHDPDAIPAPTATPSA RGAV
24010	54378	A	24148	335	869	ATPTLILSQKSHFWPQPLSSVLK LTSGPEISLQSSPSPICRMKKRR LSPLASGLES*VKSGEWCEVLS RAPLFP/HNPSQAAP/EWEMQG TRPSIPHLGLAGLPTQLQQGRL WGYRNPASPFRTVAARDACAG KQVRTGPDARLEGS RPGVRAG LGWGRGYSERVQTCAKSSVSPS
24011	54379	B	24149	158	5640	
24012	54380	A	24150	1	1854	

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24013	54381	A	24151	1	1510	MPCGKQGNNLQVPGSKVLPGLG EGCKEMWLRKVIYGGEVWGK SPEPEFPSLVNLCQSWKINNI.M STVHSDEAGMLSYFLFEELMRC DKDSMPDGNLSEEEKLFLSYFP LHKFELEQNIKELNTLADQVDT THELLTKTSLVASSSGAVSGVM NILGLALAPVTAGGSLMLSATG TGLGAAAAITNIVTNVLENRSN SAARDKASRLGPLTTSHEAFGG INWSEIEAAGFCVKNWVKAIQG IKDLHAYQMAKSNSGFMAMV KNFVAKRHIPFWTARGVQRAF EGTTLAMTNGAWVMGAAGAG FLLMKDMSSFLQSWKHLEVDG ARTETAELRALAKELEQELD RLTQHHRHLPQKASQTCSSRG RAVRGSRVVKPEGCLATSQPH QHQQERGDRPREDTDNEKRGG EKWSDFGSVLKGEPTGFVHGL DLWCEGKKSQDNGGLWPEQL AGWSCWHLKWTGGSRSGLPVP VLDAACTGTLSPDLTSWRYHPS SIPLPKQPLQHGF
24014	54382	A	24152	3	515	VGTQAGAAPGPVQFLSSAWVA LHETELPPLTAREAKQIRREIS RSSKWVDMLGDWEKYKSSRK LIDRAYKGMPMNIRGPMWSVL LNTEEMKLKNPGRVYQVRSARA QPTGQAVSGAQVSSWRERQDH PGELGVKIMKEKGKRSEIHQQ MDLDVSGTLRRHIFFRDRYGT
24015	54383	A	24153	1	1317	
24016	54384	A	24154	1640	4841	TITGSSPLAGGHHSTCRGRMDM VENADSLQAQERKDILMKYDK GHRAGLPEDKGPEPVGINSSIDR FGILHETELPPVTAREAKKIRRE MTRTSKWMEMLGWETYKHS SKLIDRVYKGIPMNIRGPVWSV LLNIQEIKLKNPGRYQIMKERG KRSSEIHIDLDVRTTLRNHIV FFRDRYGAKQRELFYILLAYSE YNPEVG YCRDLSHITALFLLYL PEEDAFWALVQLLASERHSLPG FHSPNGGTVQQLQD
24017	54385	A	24155	1640	4056	

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24018	54386	A	24156	479	3902	GQVDEDVSVKMDTVPGVNLSC ILNEMRDQDKKLVEKSYKDAK GCFFSMGEP SLIDPCLEV CYGT QLAQLQGLIRSM EQQLCELCCD AEHQDHEHQVLLDVKTRLEQEI ATYSRLLEVEDAQGGPIVMRA MTSECHWCLAPIRSPDCVCVLR QLHTRSGIHKRFCGLKGFLPER HNPGQLIHQNSGCCSRMYPFD RKLGISVALNIPGGRSYRDLWC LTAVHIHIPGIDHHRLFTLGRM DMVENADSLQAQERKD
24019	54387	A	24157	780	983	QHQLIGHKYQRSHRSL*AEPE* LECHQPD LAEPADGPPLTTRYG IVNAEMGLEQLLPKGPSLKEAK
24020	54388	A	24158	773	2016	DWPTLRENKREPTLKYWGLVP LISGMPTWFFFFLSACGNLIPSG GIRVPMENML/RVFR AVEEHCP WFPEKGTLSVEQWDSVGAKFQ ELVPTGNYVPITVWGDWALLL QFSESGDPLPLPQLSSPTGPSLS DQPLPSPTPPPDDVENSISNSG DFGLTLP PGDLILFPEEPLLAAS AAPNRTALGHIYANSSLFKPLQ HLPLESANGSGAKLQFTYNSAG PSPSSAAPRPVVSVPQVTLPS TQAASLYPSSHMDTSNHQCTSA SSAPPMPLSHTLIPSDETTCNVF NYPLKKPTGRELREAKNKGSQP KVHEKTNPGNIRCISTEERPHEN KGFNHLLEWLAELKTTIHLLDC WFIKDVNREQPDGRDAGDKR LCVKFLREIAANTYKTEVGAAK VMEILLHSHGATTIAN
24021	54389	A	24159	365	675	
24022	54390	A	24160	1	1191	

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24023	54391	A	24161	363	1434	QQGVCSGEKGGHWAPRQVGV YLLPGRVGCVSSRVSPSPFGDG LDISGLARRGSAVSALASGLVEE PMLGPPFHPTPRFKAVSAKSKE DLVSQGFTEFTIEDFHNTFMDLI EQVEKQTSVADMLASFNDQST SDYLVVYLRLLTSG\YLQRESQ VLRALHRRVDGTVQRSSAKQE VEPMCKESDHSHHCAGPGPS ACPSRVGVHGTAARAAPPRTS F/H*GVSPKVVLLYRPGHYDI LYKLGLGSSPLGCPGCPLLARA LGHCYRGFSVVVNGPISPPSSCH MTPPPCFIKGGAGGEPICVRVPA LLPAWLLCLLPPPPRWVPLFT YLLLSFPNRSRFEGPGLLEAPPA SLGSASFPS
24024	54392	A	24162	2	888	VFRSRHQGCLKMAAEPPQQQN QYPLGSDSEGVNCLAYDEAIM AQQDRIQQEIAVQNPLVSELE LSVLYKEYAEDDNIYQQKIQD LHKKYFVHPQDQGLTGTCFYS GFRDSPTWEGTCWIDSKELQRF QGLVS/SQRSKGKTLVSQGLSL EFHNFEGFSTTTFI/VDLIEQVEK ADLCRRPCLASFNDQSTSD\YL VVYLRLLT/SRAYLQRESKFFE FIEGGRTVKE\FCQQEIVEPMW QGEATTSTSLALAQALSVSIV EYMDRGEGGTTNPHIFPEGSEP KVYLLYRPGHYDILYK
24025	54393	A	24163	3	819	EGATMAAPPQPVTHLIFDMDG LLDTERLYSVVFQDI\CHRYD KKYSWDVKSLVMGKKALEAA QIIIDVLQLPMSKEELVEESQTK LKEVFPTAALMPGAEKLIHLR KHGIPFALATSSGSASFDMKTS RHKEFFSLFSHIVLGDDPEVQH GKPDPIFLACAKRFSPPAME KCLVFEDAPNGVEAALAAGMQ VVMVPDGNLSRDLTTKATLVL NSLQDFQPELFGLPSELEGRA SVFRPQPTLMVHTAGGKGKEIS NSSIPTCAVILAS
24026	54394	B	24164	115	594	
24027	54395	A	24165	4	160	SIIFPAIPVSLK*IKPNCPEPPPDH LLQAAWGCVSLGQGLSYSALN TLLYFT

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24028	54396	A	24166	88	2280	VPLYDRMGGETGLLIPSPFRSL HAATDAHSCKNRHSLTGKTDS LWQODTKLQTRPKATQGKGES GGCGPHRPLLLLRTKSTPESKS AHDPPVAPAQAGASGCGRGAA QKGFGAKAAVDGQGRDRTPG VPAAGPPTSSGRGDRGPSSRR TRSQTPEPTGRPGSRQFQAAPP PSHHSRPAHAPFPGFQMYRGPL YSSSPAPATPNTSAYESPRFCST SYISSSPRFCPTSICSSPRFCSTS YICSSPRFCSTSY
24029	54397	A	24167	2	352	WRTLIVLGMSCLSYPK*MHLT HLIHCS*EARSLVTLHIPLTICG EPRNIIKLVGCP*IQWKK**KKI MNSRILSPSFRSRY*TSNLLGLP *LRGLSPVERELKLWTRHKLL
24030	54398	A	24168	2	252	NKSSVFATSCSLDPISIMSLM*W TSVISCRSKK*SRSLRIRL*HKA KELIYPLPVRESMWGYCQLLS MSMPIMHAGTGEMTTG
24031	54399	A	24169	1505	1680	RTSSLVTL*TLHLEPAGT*VLTP GSTTGITVSGTVLFLILLSCFLSS TPFRLKLACLS
24032	54400	A	24170	681	932	
24033	54401	A	24171	1740	1950	HHHHLLQMSWSAGMQAWHW PSFYNVVTGKTLA/LPNLIALQH IPLSPAGVIAKRPAPIALPNSCA ALLSSQ
24034	54402	A	24172	1	652	GKLTEARTRCCMQLTSDRHRH TALNHTTCSHHCSGVMAGRL GPITVLSGDGPKGMRALTMW HTLARPTGDLEAPRHGRPRRIT ATQPDHAPPATSRNRAAHPHN HTP/PHPQTAH/PTATHSHLTyr TPRPTPATRTP/HPHSHQQYPY Q/PTQRSPYLHPPAPPHISLHPS TTRATVNAPDTRPTIYARESVPF GRLNLGRQRMELANILQVH GP
24035	54403	A	24173	267	400	RFLHCGNLAGLLVGFLSFKLGE YEGLGPLAALTAGKGLFFLPLE SRLRLHRRPKPRSPASFG*VSRH THAIHFN
24036	54404	A	24174	422	452	
24037	54405	B	24175	131	1047	
24038	54406	A	24176	2	199	LGLR/CARLEARARPPWATVRE KLWLFHGHPHMRCSWRGLFQD DLGLQKPLSGGSSSAYRCENL NS

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24039	54407	A	24177	440	1746	RNLQCVFQGRIKEGIPVLALS/L RPSP/RVLHTATKQKNSCQHLE EDVD\QTKWRTDTPSMDKILME EVKLEEQLKEAVEEDKQALAD TEGSEQSSQKLVEEGNMYSIQG FCKDSLEVADVLEKATQCVPEE EIKDNNPHLKNLCETLTMSEEL SQMVDCCRLPQDVSVLGVALH WVTPQMLCVPVNEDIPEVSDT VLKAITAPPRVPIGRTSGDVTGT GVRRRRVSSAMSQHRAFRDVT VTVQCLELGCFLLRVELASQFL KRPRSPESNEKVPEIEVTVEASA KMSHPTLYDATRSPWGMFQSQ SVLLSCAHHSLLRGATLDRCGS IDESEEWYGMDTFECTGVGVSI RRATEPERSSGSAAALDSHRSM HPIVNHACEGSTLRCPYENLMP DALSLSPILSSRSGDASPQAEILP VVGPFMRMRCLTVDPPLDVT
24040	54408	A	24178	391	656	

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24041	54409	A	24179	1	2150	MEDSTSPKQEKENQEELGETRR PWEKGTAASPQYSEPESEPLE AKQGPETGRQSRSSRPWSPQSR AKTPLGGPAGPETSSPAPVSPRE PSSSPSLAPARQDLAAPPQSDR TTSVIPEAGTPYPDPLEQSSDKR ESTPHHTSQSEGNTFQQSQQPK PHLCGRRDVSYNNAKQKELRF DVFQEEDSNSDYDLQQPAPGGS EVAPSMLEITIQNAKAYLLKTSS NSGFNLYDHLSNMLTKILNERP ENAVDIFENISQDVKMAHFSKK FDALQENELLPTYEIAEKQKA LFLQGHLEGVDQELEDEIAENA LPNVMESAFYFEQAGVGLGTD ETYRIFLALKQLTDTHPIQRCRF WGKILGLEMNYIVAEEVEFREGE DEEEVEEEDVAEERDNGESEAH EDEEDELPKSFYKAPQAIPKEES RTGANKYVYFVCNEPGRPWWK LPPVIPAQIVIARKIKKFFTGRLD APIISYPPFPGNESNYLRAQIARI SAGTHVSPLGFYQFGEEEGEEE EEAEGGRNSFEENPDFEGIQVID LVESLSNWVHHVQHILSQGRC NWFNSIQKNEEEEEEEDEEKDD SDYIEQEVGLPLLTPISEDLEIQN IPPWTTRLSSNLIPQYAI AVLQS NLWPGA YAFSNGKKFENFYIG WGHKYSPDNYTPPVPPVYHE YPSVPEMAEMDDPSVEEEQAF RAAQEA VLLAAENESEDEDE
24042	54410	B	24180	1	489	
24043	54411	A	24181	39	423	RSPTPDAASRSQCSSRRRRGV KEVFSMARTKADWPANRTG G*STPRKPTGPTKSPLRKSAP/A PTGGGERNPHRLQGLVTVAAP* NLDGYQKVHSNFLIRKLSLPSV WVREIASGLLKQNLRFQERQ
24044	54412	A	24182	3	384	
24045	54413	A	24183	1	434	MLQNVTPARAEWQRKTALQG VEDPVPARPPISPEDLLRS GECSTAPTQRQVPQPVHE/SHRPTQ DSPGARRKPTSERGHTEQRAAP DREARPATRGWGLRPGGQWLG GSEHAAAAPGPSDHPRGRCRH HTILQRPRLLSGKTES

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24046	54414	A	24184	15	286	LPSRGAWLGTCSPPCLSLPPPP WAPVRPEPPR*APPPAPRRPVPS TTQGS LGPHCFYEL*HSPRRSA ASLLKPARPRAHQEERTTPDAP P*EL*HSP*RSAASLLKPARPRA HQEERTTPDAPP
24047	54415	A	24185	2	214	CLSLPPPPWDPVRPEPPQ*VPSP APQHVPSTTQGLRSVGARRGT GRQLHLQSRCGIHWVKPAGLL SLGL
24048	54416	A	24186	308	311	LPSHGAGLGTCSPPCLSLPAAP WAP/RVARASPTSAAPTQHPV PSTTQGPLGSPSTLRKL*SFALC NKSCCCLFGSTLPL*AVTLTA KVCSFTPKA\ARP
24049	54417	A	24187	1	669	MMNEGSGISLSCDLGTALQLL SQAIVECLKLFQMLNRSTILGSG GQQPSSHSTKLRPDSGAQLAS PSGSCTGAAGGAACQSRTVCSH SSALGWSMGLGAVEQGVVLV GEAQAAQEPMEGVGGSGMAG CRSRALPHGKAAKARRAIEHST GGLALLGDPVHSPQPLARVLSP SLPRASRAGW/PAPSAGPPSPHP PGTPAGPQAPHAAPVPARASPS TPPCKL
24050	54418	A	24188	157	395	RCSSCQREMPY GK*NVQKRL KTTKNGSM*LKSHILSTPEQPA SPTSS/PPLLQPAAPAPPLMPRPS PPPGISVA*YPGM
24051	54419	A	24189	2	287	CLSLPPPPWAPVRPKPPR*ATPP APRRPVSTTQGLRSAGARRGT GRQLHLQPLCGIHWVKPAGLLS LVGTWRTFMSSSGIVNTPISTLC LAQGL
24052	54420	A	24190	500	724	
24053	54421	B	24191	1	2154	
24054	54422	A	24192	688	1215	SRLAPALLSPWVVDGTGRCGA VGGAHWGGLGRTGAHGGGGR LRHGGLRVPSPAPREGS*GPPR YRAQRWWAGT/DWRTQYTLRS CWP GTLPSK*REMPY GK*NV QKRLKTTKNGSM*LKSHILSTP EQ\PASPTSS/PPLLQPAAPAPPL MPRPSPPPGISVA*YPGMPWTC PFYWQ

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24055	54423	A	24193	308	1131	VLQLRRRTWSCSLRAW SWDL IVPPGGLVVSLASGVKLQTF AV SVTALKEARLDL FVPPGGLVVS LASGVKLQTF AVSVTAHKSSV DPKNSGAQLASPSGSR TETAGG AACQSRAVRSHSSALGWSMGL GAIEQGAALVRGGSGRTG\ PME WVGSGSMAGCRSRALPRGKA AKAQREIEHSAGGPALLGDSVH PPQPLARVLS PPLPGASRACWL LRVRGPPSPRPPGTPAGPQAPH AAPV PARASPSTPPLVHLTNDV LRVKVKWAF FFFTLHK
24056	54424	A	24194	192	818	SWCLSRAVVGDSMTSEVIED\ E KQFYSKA\ KTYWKQIPPTVDR HAWGEGPNKTGTSCALDCGAG IGRITKRLLLPLFREVD MVDITE DFLVQAKTYLGEEGKVRNYF CCGLQDFT\ EPDSYDVIWIQW VIGHLT\ DQHLA/ESFLRPCKGQ ASAPNGIIVIK\ DNIA\ QEGVILD D\ VDSSVCRDL DVVRRII\ CSAG LSLLAEERQENLPD
24057	54425	A	24195	1	233	FFFFETESRCVARLECSGAISAH CNLC LPGA SNPASASQ/CSWD YRCVPSRLANFLYFSTDGISPC WPRMVSNLLTS
24058	54426	A	24196	240	476	LLPQYRRVLLIYSGIQLLPGLGL RRRMCPGIYSFLLDFLVYLRRG VYSIL*W*FV FVVLVPWFSA PS GHLRSSLCCLF
24059	54427	A	24197	288	677	NLPEDVVPDDKPHQPLLRAV\ C LFVISKDLFLESPFESPIWRMYP NSTVHIQRLELALLC/CHCPRAL PASAHSCHSLERGLPICKE**CM PCSEYTIASQRPAGGAPAILPEC DSRRRTTQATSEPGSHI
24060	54428	A	24198	99	399	LLCHGFEHPPLAQRSLLLPIV*S LLLSTRQSHSPSSFVPLLARSCG SWVSPAEEAEPQILQKGKCSCL IVPLEALCQRGTRLSLWLPLTFF PSFQLWPV
24061	54429	A	24199	1	586	LSFFKVFSSFAIGSNILFSSEKFII TDHLKPSSPTCQSHSLSSFVPLL ARVAFRWGFVGVVLSFVSFPSN SQDPQLQVCGVCWRSTPDRLP GYHQRGSGGCRTADIIEPQMLR LIVRLEVLSQRSTRPQRCQ\SA\ L LGGASQLGCC/GVRDLL EEA VC PFSDL/KLHAGKTTTLFKA VRQ/ SHLSLQRLLSFVCLCPT

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24062	54430	A	24200	1	822	
24063	54431	A	24201	1428	1801	RSAGIDPE*FFSG/PRRIHTASCL PSQRSSNRACSSSVTRIVSILSRF IGIITPMNRNPRFWRNSTSWTR MNRQTSVNRFTTTLSMFTAAA SRVSVMTVKTSDDTCSSRRRSQ VKYHLSISTQVL
24064	54432	B	24202	1	2040	
24065	54433	A	24203	176	564	AWEPKWYSTTATRTHFWEMRS RSIMSTTKAFSTNSASDSLEEP SSRKTRSSSLQ*KSCNGGSEM SSTYRVVGLTGASLSASALNSLI DSRSNR*/V/FSRNTLANITRRNQ LKMLPAPDPDGFSSGSPFQ
24066	54434	A	24204	1	774	
24067	54435	A	24205	1	1807	MPLRAFNPVSSFRWARGMTIV AALMTVFFIMQLVGQVPAALW VIFGEDRFRWSATMIGLSLAVF GILHALAQAFVTGPATKRFGEK QAIAGMAADALGYVLLAFAT RGWMAFPIMILLASGGIGMPAL QAMLSRQPNFDHWTADRHGD LCRLGEHMERVGMDCRRRPIPC LPPRVASRCMEPGHLDLNGSRR HLANGFTTPRIGANQFLRRTVN AQTNPWQNIASIAISSRTRRIS GSVGSWPRSGNAEVSALHHYV PDLHRRMLLATLWNTYICINEA LALTLSDFSLVPPHPYRQLFTLT TFHNRACSSSVTRIVSILSRFIGII TPMNRNPPYTEASVTKEKTAL NMAFIRSQTLTLEKLNELDA DEQADICESLHDHADEL YRSCL ARFGDDGNSYDHDYAKLACLQ VEGRGGGTFARELLAVEYAGW ISPAFRLKVMHWLMNRMLDAR NRDRYKQWKQDFFHDSYNRQS AGHILSQCANLAATTSEYFIHKP HRLIAAETGYSQSTVVRAFREA VNKGILSVEIVIGDHRERRADL YRFTPSFLVFAQQAKNALIESKS KI\SSAATKVRLLAPISPTSPMG KIGLATSGS
24068	54436	A	24206	291	851	
24069	54437	A	24207	2	694	
24070	54438	A	24208	2	331	HLSTIEPEDYNLLFRRVSLKLSV WLPTWQSKSNGWSKKCLWMH LKSNNPLNALLPPAGF*SATMPK CSAWAKTISSPGCVITEF*SQPV NAGTSPNKNTYLVGISPLKKP
24071	54439	A	24209	1	4455	

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24072	54440	A	24210	698	1088	LTSKFIAAVCMRRISLCGKGS QNTDSGIAATPCSCVSD*QNSTS SRIRM*PWMCPCPMKRKSAT*N ITLRC*RAAPPISSVRK*/MSM Y/NHLQSAECGGHRFPVPQEE SILLLLHLIANRSSACHSIR
24073	54441	A	24211	1	1902	
24074	54442	A	24212	1	2898	
24075	54443	A	24213	1	2604	
24076	54444	B	24214	1	1254	
24077	54445	A	24215	1	2946	
24078	54446	A	24216	698	1285	RFWRNSTSWTRMNRQTSVNR TTTLMSTAAASRVSVMTETA MTMITPSLHACRSKAVAAALLP MNCSLWSTQAG/CSP/DVSAEG KPDYRLSNRKITTCYSAES/LL KLSVWLPTWQSKSNGWSKKCL WMHLKSNSLNALLPPAGF*SAT MPKCSAWAKTISSPGCVITEF*S QPVNAGTSPNKNTYLVGISPLK KP
24079	54447	A	24217	1	1986	
24080	54448	A	24218	1	2262	
24081	54449	B	24219	1	1014	
24082	54450	A	24220	1	1155	
24083	54451	A	24221	5	386	
24084	54452	A	24222	1922	2146	SSSAGISCWSSSPTPGSIPSRVGS AAA*GWTTSRSTGSANPSASR KPAAAIRASMPPNCRSGEARWP LWSGSL
24085	54453	A	24223	1091	1435	
24086	54454	A	24224	1	2919	
24087	54455	A	24225	1324	1502	
24088	54456	A	24226	1	2901	
24089	54457	A	24227	5	253	
24090	54458	A	24228	1227	3031	

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24091	54459	A	24229	1	1940	MNRQTSVNRFTTTLMSFTAAA SRVSVMTVKTS DTCSSRRRSQ L VCKRMPGADK PVEGRGGGTFA HELLAVEYAGWISPAFRLKVN QTFIDYRTGRLQPAIPQSLPEAL RLAADLAEQKQRLEQKMLMD APKVEFAERVATASGVLIGNYA KVLGLGQNYLFTWLRDNGILIA TGERRNVPKQEYISRGYFTLKE TVIDTSNGSRISFTTRITGKDVV RTTSIVMLAKVTF LSCITMSDFT FSGYELACFVTHSGLSRSAGHIL SQCANLAATTSEYFIHKPHRLIA AETGYSQSTVVRAFREAVNKG I LSVEIVIGDHRERRANLYRFTPS FLAFAQQAKNALIESKLKISSA ATKVKAVLAKTLALFNFLSTPP CQNDTPSPCQDDVAIKNKKSQ VKKTKRSVSGGAGTTS LKKLTS WIAKAKAKADNLR LSKKRTQK HEFKQKVEAAARKYAYLKNKR SPDIGGISNFDNLPHCMTVNEA LNAVLAKNKDNEQWGAVAGA YIADITDGEDRARHFGLMSACF GVGMVAGPVAGG LLGAISLHA PFLAAAVLNGLNLL LGCFMQ ESHKGERRGELLKIVVLPGDHV GQEITAEAIKVLKAISDVRSNV KDFDENHLIGGAIDLQGGGGK PRCVSKSLMLHCTR
24092	54460	A	24230	1	1230	
24093	54461	A	24231	1	799	MKPRTYTVSVTAVKDG VSGVC SFRCS DVS RVSS FQWVRGLADF RSEAADLHNSGAQLASPIGSRT GATSGAPCQSRTHAPALLSLW AVDGTGRHGAGGSTRRQSGG TQEPMVAGKAQAWRAAGFSG SGDGVGV SILVPWGGTCIGSFR QANSWISGGAFSDAGCDSDRL GKDWN SLEGSEEERKMWESLE LPRDLKSS EDRKMWESLELPRD LLNGFDQNADTICTMKSRLRW SQMEMKNLLGTGVNVT LVML* QRDWRHLLLV
24094	54462	A	24232	416	775	
24095	54463	A	24233	548	882	PGGHQYPPCHLEEKETDLP LLY TAVEEKGLSYSIIPGSLVEKPLT STNSSGTPIQSNITSL* IPLAGIMS MAASQN*AI*WPLAPTMQSFTC TT*RLS*SHRRSWWHRGCT
24096	54464	A	24234	144	570	

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24097	54465	A	24235	254	1117	LSRMKLRTLVSSTVLKDVVS GVCSFRYSVSGVSSFQWVRG LADFRSEAADLRGLKLQTFVVS VTPHKGSVDPKSDQQRDLQK VKEQNFNRNVKGDPAALAHEDD VNGTESGAPRKHGDRLEDDVV ITNPHIEAILENKDWIEDASGLM SHCIAILKICHTLTEKLVAMTM GSGAKMKTSAIVSDMIVVAKW NSPRVDDVVKSMYPPLDPKLL DTGTTTTLLSV\SHLVLVTRNA CHLATG\GLDWIDQSLVA\AEH LEVLR\EAAL\ASEPDKGLPGPEG FLQEQSAI
24098	54466	A	24236	472	844	RTDGVLVWMSFLFVSFSPNSQD PQLQVCWSLLEVHSRPLPGYQ QWRLLCPHEITGESMSKLIHQK YTSSCCLFKSS\SERGSSTPCPSW LGSGEGLSTLHATDFSFAPMA QRGKSSLVSL
24099	54467	A	24237	206	456	
24100	54468	A	24238	50	392	LGLLPFHRCPTQRGGI*RGSLA TAALLSCGGCLCPVGS\SRHLCIA PVRGKRPTQASVMGDALPPTK LECPRSASGCCAGSDNFKPVDL SLLSSMGLGSTELDHLAPWLQP PFQG
24101	54469	A	24239	1	204	SFSVQFCSLVGDPLG*SSCDPLE EKRCSGFWNIQPFCAFGPSLW DYL\SLVFDVDDLQMRSLSGCPF
24102	54470	A	24240	1	375	MCNAQVLEYMGKSSLLTSDL QLVRDALRSLRNSFSGHDPQHII TIDSLEQGISSLMERLHVMETQ KKQERKPPLVIPRQT/WVWSGP PANSNRPA\AEGPDC*KEN*RDA LRSLRNSFSGHDPQHHTIDSLEQ GISSLMERLHVMETQKKQERKP PLVIPRQTGSGVDLQQTPTDLQ LRDLTVRRKTNEQKGIASASTK RTSTPKPHL
24103	54471	A	24241	1	674	MVVYACSPSYLEAEVGGSLSL VEATNPKNSSKKFLDLISEFCK VSGYKISVHKSVALLYTKNDQ AATQIKNLIPFTTAAKQFKYFGI YLTKEEERLKPSRKKITKKHTK KRTASLILHAMICSQIPKQQQNE KYQVPQFDQSTIKNIESAKGLD VWDSWPLQNADGTPPLVIPRQ T/WVWSGPPANSNRPA\AEGPDC QKEN*QTERNSINIKKKDIHTKT PLCI

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24104	54472	A	24242	1676	1768	
24105	54473	A	24243	270	471	PSREYQDANPWLKWIKYSVRT LNKSDCYASGYK*ACLLCSVYS HGKAAGECTLSAGSKNGLAEVI KK
24106	54474	A	24244	23	200	AQMKAHGRSRSS*RCDEEHWR ACRAQEPPCSQSQRERSKRTCR QGTVASKVKCHSEAR
24107	54475	A	24245	3	270	ASTSHVPQPICGLDDLAIHSAV RLNRERVHSTAVLP*EYTKQRR QGHLPDPYKKEGAATNEDAL LLRWERGRGARLHIPGCKAPQL
24108	54476	A	24246	135	275	
24109	54477	A	24247	365	583	
24110	54478	A	24248	2906	3114	
24111	54479	A	24249	108	405	NLHTPYRPQSLGQGEPLDDYV NTQGAS/LFSVTKKELGAGSIEE CAAKCEEDKEFTCRYFHCRCTF LSIPQVTSSFLCFPLPLLLKSSK LLANRDKYRM
24112	54480	A	24250	1	386	
24113	54481	A	24251	1	808	MSYSQCVSDPKAHGILPGYHC WLF RDQGLLKSQHVINPAKAST GFFLQDTLMVLEIKTTIRNYYK HLYAHELERLEEMDKFLDTYT LRRLSQEVIDSPNRPIMSSKIESV KGYTHQQFCHKSTLNKGDRVI DNLTCPPYCCVWFPLAGTGPHI LYLSRLVSNLELFKRGKGRGEQ RKEEVTCGMLRKSLVTSDLPEP GGVTSEGCETAKVTACSSLWE LCHREVLTPYCPKDTCKRWLE TPVRRSCPVRRSRISTCLRKKFG HILAEQLSCA*RCL**FL/YGCFY FQDHECVLKEESSTSFGRINHV LTLKEPLVPE
24114	54482	A	24252	833	1245	ANMFPAFAA VAAGAATEAAA AAAAAPAPLAPARRAAAAAARG PPLPRLP/WSCAEVMYHPQPYG ASQYLPNPMAATTCPTAYY/RA GAPTWPAGESPDGQPAGGGGE GHREYRSGARRRPAGTRGAED ALGSAGASLSRKP

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24115	54483	A	24253	145	766	TGCIREKFHLPEGSLIVSSRKH LQRLAFQAKVSSMMLPLQGAQ MLQMLEKSLR\KSLPRNPLKVY GT\VFHINHGVNPFNLKAV\VDK WPDFN\TVVV\CPQ\EQDMDRW TLDHYTITYQIYSKDPQNCQEF LGSPELINWKQHLQIQSSQPSLN EAIQNLAAIKSFVKVQTQRILY MGRLETAK\ELTPFLAGNQRLS PSGWAKPKAM
24116	54484	A	24254	215	550	VGFRSCLVMSGRGKGGKGLGK GGAKRHRKVLDRDNIQGITKPAI RRLARRGGVKRISGLIYEETR VLKVFLENVIRDAVTYTEHAK RKTVTAMDVVYALKRQGRTL
24117	54485	A	24255	3	292	TLLNLAAAHCSGPCLLWFQLSF RSPSTSAVGRCRPSADFHPSRS SRVSAVLLIQ/QRCPLPILQLKA CHCSCTAKWLGSSPKPETFFEII HPSPS
24118	54486	A	24256	1	789	
24119	54487	A	24257	3	256	TLLNLATALSSGPCLLRLELSFH SPSTTAVCCRHRPAADFPPFGR VSSLLLIQ/QRCPLPLLIGLKACQ CSCAAKCCVRPNRAEQ
24120	54488	A	24258	3	212	
24121	54489	A	24259	2	491	
24122	54490	A	24260	20	272	
24123	54491	A	24261	160	876	
24124	54492	A	24262	623	796	GANSWNLTGTLAVKAGTVENP I*VFATHVESAGPR*LDPRTGSL AVRTKGRHWDQGA
24125	54493	A	24263	242	659	TSNSPPQTRPHVCHGPRQYLLQ LSSRDLEFLVQIAVRSCPCGLR IRSPVFAVASTSTFGTLRGKV KDFGFVFPPPWGQPCLCPVEER ALSCQGPVVD SRCPRCGHEGM AYHTQQMRSADEGQTVFYTC TNCKFQEK
24126	54494	A	24264	66	238	
24127	54495	A	24265	2	278	
24128	54496	A	24266	168	565	TENFRALSTGEKGFGYKSSCFH RIIPGFMCGGDFIRHNGTGGK SIYGEKFDDENFILKHTGPGML SMANAGPNTNGSQFLICTAKTE WLDGKLVVFGKVNGMNIVEA MECFVSRNGKTGQKITIA\DCG
24129	54497	B	24267	20	88	
24130	54498	C	24268	183	254	

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24131	54499	A	24269	412	590	KSGLATQG/GRRRGWVFLAPQ KGGEGVETQREGVGVFLAPSPE KRDLPLRVKDQGRRPCVV
24132	54500	A	24270	550	852	
24133	54501	A	24271	207	381	
24134	54502	A	24272	412	589	KSGLATQG/GRRRGWVFLAPQ KGGEGVETQREGVGVFLAPSPE KRDLPLRVKDQGRRPCVV
24135	54503	A	24273	191	235	
24136	54504	A	24274	95	375	AEKIWEGVSQRALGQSSRGSGS GCQMNPLSGRPQVVCFFTAHM LTKKREEGASMLNMPCFQ*KE EMIQANLGPDIADSSHCLGIEGPP WAPLTP
24137	54505	A	24275	144	293	WQVPLFWQPFPEPELELWPKAL* LTPSQIFSD*RLKTDAAARSPRKP PAPR
24138	54506	C	24276	1	909	
24139	54507	A	24277	1	1744	MGCLGTQRAPRAFLLLPLPLHF AQLSNLTQLQAAASLSMVTHR SSGGGGERGATAAGTEQGGAC LAASLLRGLWDAGEVTPIRVRV RPYDPFTLAPLHEHSEAQCVAS PSLTVTKEKSLLPKSLLAGSREV ARSRALCHGQARPPPRPQVTQQ RTQLQGQRILQWRPATEGPHSP RRGSDSAKGTHPPTTGTCPPRR RQGAGYSRYNSGESRRRLGRQ QDLVARSDQRDPAPATRRED KMIEELQPFGEHRPRRSPSQGC DTLFQALWFLASPSFQGGQLQ VLALCKAAAGPGAPQAASTAG TREHGYAWKLGDTRNHRALK RKSQTWLRRFPAGCPDVCSAL ADLRAFMGLRGEEVCADWSM GGHGSGECCRRGTGGQRAVVPK SPVQEKGKEPLSLLQYFMVDEK ERFLRITSEHEDNDNSNNSSNHS SINETKETCFIHEPKTPAPVTDW EGSLPLVFNHCRDASLIHSCFK GVRPHRDACLGRFTLSGK/FPL SWGRGKYPSTSPSPPLAASPTFL GQGQELVTSARNLTTRPRNAC GPGFLLSHVPSVRDPTGNRTVQ LTWQPLPEPELELWPKAL
24140	54508	A	24278	2	120	QSSAAKPRTSKGKSVREPWAR VPGALGVAAR*AEQSDFQ

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24141	54509	A	24279	1135	1483	ILTMTGSLSCTPSNAVIEKV*VC CSSLSTG*SKV/QVASNTSLCDG ED*GVVIQKKVKLVWFCIFYVL VQSYYS*R*SQIETVRNGCSHW GRFQDIALITGHCKIWTLIVFIQ YFNV
24142	54510	A	24280	1	860	ATTGGTNLRDDIMRLDDTVHV VIATPGRILDLIKKGVAKVDHV QMIVLDEADKLLSQDFVQIMED IILTLPKNRQILLYSATFPLSVQK FMNSHLQKPYEINLMEELTLKG VTQYYAYVTERQKVHCLNTLF SRLQINQSIIFCNSSQRVELLAK KISQLGYSCFYIHAKMRQEHRN RVFHDFRNGLCRNLVCTDLFTR GIDIQAVNVVINFDFPKLAETYL HRIGRSGRFGHLGLAINLITYDD RFNLKSIEAQL*TEIKPIPSNIDK SLYVAEYHSEPVEDEKP
24143	54511	A	24281	848	1218	PMQRKSMKISVS/PVSVQKFM NSHLQKPYEINLMEELTLKGV TQYYACITELQKLAETYLHRIGR SGRFGHPGLAINLITYDDHFN LKSIEEQLGTEIKPIPSNIDKSLCG AEYHSEPVEDEKP
24144	54512	A	24282	241	477	
24145	54513	A	24283	38	208	MTAGAPPPPPPFET\PEGV*GNP TCSGG*EDASGSTRSQRHPVGL PVSCALRACHLK
24146	54514	A	24284	794	1455	AQQGGTSKKRRFPQDGGQQRAG LACSRPPGPGGCGFQAPAGERY PNIKPHPTSVAPLVLCICYLM/P MLPWAWSYWRGARRPSRHPG AFPCSAHQCPAARSPTLRQE DPEKGSQASSFPTGPSQSMVD RCLKGPQLDVSRLKQLSLPQTGL RPVLVNQLSKKPTGYPQTQIQW VLMRDTGKDTDTEEKEGHAK MEAEIGVMYPQEHLEPPESGRA KGEIPL
24147	54515	A	24285	90	354	QSPGVHQLSRFVS*SYSERP*SL LVSTRYHTRALH**HYADSIQ* ARSSKHTGLIGCTVP*RGFPRTH SFYSRKREPRRQTSSFRGIL
24148	54516	A	24286	236	520	TACFLTHVAIKWVMHSSIPSSN GGGIYMIGLKAQVSYMRKWLK SPWSPLLLSPSLHRWPHGKFP MIS*QKRRLGPGSQMVLHDMQ APPKSGQL

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24149	54517	A	24287	16	278	FAQAMKPHLVQQLQLESPLG* AYDNPLSFSKIHLSDLHKPVL*L GDSNDVLGTLESMSAQSQCPV VPEMSDHLFPFMHSYPGKRPEV
24150	54518	A	24288	74	168	LGKCLFLHSCP*APPEAICLQLP LLSSPNGP
24151	54519	C	24289	92	564	
24152	54520	A	24290	1	876	
24153	54521	A	24291	71	282	PLVTQVVFRLFPTNSSLDLLQ/S PSP/GSGPHSNWQPFGLDKWA GVKHPNEECAASKIQTGPPCVV PLPWL
24154	54522	A	24292	81	1054	PRLFSDCFPTAAWTCCRAFSC SGPHSNWQPFGLDKWAGVKH PNEECAASKIQTGPPCVVPLPW L*EEPNAAIYSPVSPVCFLLLA HWIQA*CHQCNGPVWYLVEV KSNQVLSK*HYDTKPES*YTPY GQEWKRGHLPSQWPHTRYQE MY*FAQAMKPHLV*QLQLQSP LG*AYNNPLSFSKIHLSPHGS SEPCL*GPTRTLV*L*L*KQTGM LAVAPEENQHLYLAWQLPQGRP SLLPQAVQGLSPQTKVERLMA ASVGEGMLPILGMEKLF/PSGK KD*SGFTSSVSPASSGSSHTSPF QVAGSHSFPINAFTLTVDTW
24155	54523	A	24293	5	88	
24156	54524	A	24294	779	1041	PPLSSPSGP/DEQSD/LWWQQSIP LHQETVKVLH*MGPVPCATQL DKIHQQGFSDPYRGAVLLASG WCPKRPEIPEGATTHLCCFPAS
24157	54525	A	24295	248	3714	
24158	54526	A	24296	4177	7804	TFQESRFEQGFQKAIFILELVDA EDPPDEEEEEASSIFSSSFHFLFP SSSSCFSSSSSSSLLLRSPGDKD MPTAGMPSLLQSSSESPQSYPE GEDSQSPLQIPQSSPESDDTLYP LQSPQSRSEGEDSSDPLQRPPEG KDSQSPLQIPQSSPEGDDTQSPL QNSQSSPEGKDLSLPLEISQSPPE GEDVQSPLQNPASSFFSSALLSI FQSSPESIQSPFEGFPQSVLQIPV SAASSSTLVSIFQSSPESTQSP
24159	54527	A	24297	145	219	

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24160	54528	A	24298	191	1075	QPKVSRHCQTSPGSYLYSLQSG RWTTGKPLQQTksvYLRsfHH HHFQNHRRHYLHHHHLYHHHH YHPHPSHHHLHCY\SQHHHHH HHHHHHHEHHLCRHQKSTQVE YSVFAERENDLGLNGTGDEAL HDNGTTERVSGPPAGYLYRAD YAIGLQPFMPRLGRRTPGAGGP HSRAPELAYLQKLITSPATLPFV YLETGGWSPRDAHRVDNFD MPRENMGSVWEKSFLFTRNPSK SSYIADKNLIYLYASECIGRQSQ KARASKSGVQAHPYITGAIKD DTRAIVKTRDLANRLK
24161	54529	A	24299	155	381	LICTSFKILSRLFCPSSL*SSSSQG ACISKLLSVLTYAHLyFALEKE VLTFLSRAIVSSSTLLTHGVAHS LTLFH
24162	54530	A	24300	1052	1338	TGWDGPPANCSSPMEGDSNVH CSCVCCSCFGLLL/CAIHCCCA PPGCSACGAATLLYSAPLGSSA YGIALLSPFHHVRMMLSTKQEV GLHQTNLNP
24163	54531	A	24301	1	723	MLNVQALVVMVMCFMWASL WAPGGHPSAGNISSWVSGLVSF PEWSSWELVVSvVGWAGKLW LHESLLTLNLSCGLLVVLVALV FDEWHPWSGHVAEACSTGYWS TGGIWFHEIAAP*DCSSSPAME QSWMEND\DELIEVGFRRLVIT NFSELKEDVRTHLKEAKNLEKR LDEWLTRINSIEKTLNDLMELK TMARELRDACTSFSSQFDQVEE RVSVIEDQMNMKREEKFREK RVKRNEQSLQEI
24164	54532	C	24302	295	430	

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24165	54533	A	24303	811	1947	QTERNSININRNGHQHQNPICRS PSSKTKGSIKPQRSGRNQSRKA ENSKNQSTSSPPKDCSSSLAMK QSWMENDFDELGTAGFRRLVI TDFSELKEDVQTHHKEAKNLE KKIRQM\VTRINSVEKSLKDLM ELKTMARELCDACTSFSSRFDQ VEERVSVIDQMNMKRKEKF REKRVKRNEQSLQVIWDYVVKR P\NLRLIGIPESDEENGTKLENTL QDIIQENFPNIARQAN\VQIQEIQ RTPQRYSSRRATPRHIIVRFTKV EMKEK\MLRAARQKGRVTHKG KPIRLTADLSAETVQARREWGP IFNILKGKNFQPRISYPAKLSFIS EGEIKYFTDKQMLKDFVTTRPA LQELLKEALNMERNNNWYQPLQ
24166	54534	A	24304	1	2394	
24167	54535	A	24305	1902	2413	
24168	54536	A	24306	2	610	WAPPAIHIRCMPEAYNFRPKPL SLIPSAIQSNELIIMNGNRALNIQ LLKRYQCTLDIRYKQTSMLNC YEGTVITPSHIQYPCLSDSYGLY DIGIRNTDFLKGELSMNIRPLHD RVIVKRKEVETKSAGGIVLTGS AAAKSTRGEVLAVGNRILEN GEVKPLDVKVGDIVFNDGY\G VKSEKIDYEEVLIMSESDILAIV
24169	54537	A	24307	1	801	
24170	54538	A	24308	1268	1579	TAIWSPSKSALYAAQTSGCSWI ALPSISTGSNAWIPRCRVGARF SSTGCSRITSSRISQTTASSRSTIF FAALMVVARPRSSSLP*MNGLN SSSAIFFGRPH
24171	54539	A	24309	583	796	IHICDIRFSATPAGGEFWQYIAS RQSIFHAIVETGHALIQPSSVPG LTPAMKAVATTSH*TVESCFRS ASR
24172	54540	A	24310	1	313	MPNVDVVGEMVNTMSASRSY QANVEVLNTEKAMSIAVTTTDP TNTGVSTTSSSSSLTG\SNADLQ SSFLTLLVAQLKNQDPTNPMEN NELTSQLAQISTTLRAY
24173	54541	A	24311	54	323	SASAQVSALSIHSAAFQNEYLSP CPN*RLVSAFTNSSRQSG*PEK SVSQTPVITASAFT*YADIAASV RNKILRPGTNVFGDTIGFRVQ
24174	54542	A	24312	816	866	
24175	54543	B	24313	1	985	
24176	54544	A	24314	1828	2505	
24177	54545	A	24315	1	1938	

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24178	54546	A	24316	4201	4668	
24179	54547	A	24317	269	503	
24180	54548	B	24318	1	1702	
24181	54549	A	24319	829	1584	
24182	54550	A	24320	1238	1926	IQAAYNRIAPSSSPKFPRACGKP CLGERGRIRGPGPSFGLINRPST PDPTITGVSTT/SSSSLTGSNAAD VQS/SFLTLLVAQLKNQDPTNP/ MENNELTSQLAQISTVS/GIEKL NTTLGSISGQI/DNSQSLQASNLI GHGVM/IPGTTVLAGTGSEEGA V/TTTTPTFGVE\WDGTL/TDGST APNGSYNVAIS/ASNGGTQLVA QPLQFALAAERFCALSPGAPYR YDTWVRQWVASP
24183	54551	A	24321	487	1509	FYLQGLRQQPQVRQPLNIGVTA QGVNAAACHPHIAEQQLDHRH RTNVLRTNGVLRPAEGIQERGS FIVSTGFCDVFADFQERVFWRT TDVFNHIWRVAGNVLFQQVPH AARMLQRGIAFGEAVFVQFISP GGFIVLAFFRVVAGEQAIFKAVI LTHDQAGGGIGFGVFAVEFFIV QQVQQYA*QESNVSTGTNRGIV VSYRRRTRKARIDHNQLRAVV NFGFHRPAEPDRVSAHHHDEV GVLDVDPVVGHRKTFDFIWH DQFIDQVRVRFSGDNRRQLDRE QVGLQSANNSPIDKSLFRGINQF QLYAAFTAQDVNIDIFKTRQQF FAVIGQTTGVQYQYK
24184	54552	A	24322	377	749	
24185	54553	A	24323	140	298	
24186	54554	A	24324	342	1094	MGAPWLHRPRRALQRWRLGS GFSCGSGGLQENNGRPVMV LALSTLPRRPTRCGCEFYCLIKP GFRLGMKSVKMEIRGLWAGGE DKIAVPAEPRSAGPERTLSDLH NESIF/ITGGGSGGLALVERF/IE EGAQVATLELSAAKV/ASLR/Q RFGEHILAVEGN/VTYADYQR AVDQILT/RSGK/LVNTPAETLE TGFHELFNVNVLGYLLGAKAC APALIASEGSMTLSNAAWYP/ GGGGPLYTASKHAATGR
24187	54555	A	24325	1	1785	
24188	54556	A	24326	2	1760	
24189	54557	A	24327	2437	2679	TFQYIGQPHGDEFPHVAPVKHG DKLGEKGNHHDKSRHLFHRFN H*MR*IRLTSNCAGSDAISQRD NKEKKNQWHDFTFNKG

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24190	54558	A	24328	3	415	
24191	54559	A	24329	1	1932	
24192	54560	A	24330	1932	2117	RAISLGRTAAGYLNSDVAQRA ASGADPAGDFV VWH**IRKNLS GGARYAIPHLYQH LAWHP
24193	54561	A	24331	1	1017	MRYREPPARGVEPNELHACRSE DKLSEDAFDDQCTGANPRYPLI SELKQILLDTYYGRDYVEDRLS FLLAVATLNGERLDGEMSEGK LVMPFRHVSDAFEQTRETIGVR GNNAINDMVRQRLLN RFTSEQ AEGNAIYRLTPLGIGITDYYIRQ REFSTLRLSMQLSIVAGELKRA ADAAEEGGDEFHWHRN VYAPL KYSVAEIFDSIDLTQRLMDEQQ QQVKDDIAQLLNKDWRAA ISS CELLSETSGTLRELQDTLEAA GDKLQANLLRIQDATMTHDDL HFVDRLVFDLQSKLDRIISWGQ QSIDLWIGYDRHVHKFIRTGID MDKKPRPSRRCL
24194	54562	A	24332	5	220	GLSWLNYC*ASTLTISLRCATR AVPLTRIRCRPRLLP SRRERTAL PCIYVKIAVTLTATCASCVR R WIPA
24195	54563	A	24333	3	180	
24196	54564	A	24334	229	564	PGFKPRHSSWQRLPSLGHLPLY GSSVFTLLNLATAHSSGPCLLQ LELSFHSPSTTAVCRRHRPTADF HPSESGRVSHVLLIQ/QRCPLLL WIRLKACHCSCTAKCPGSSQLS
24197	54565	A	24335	148	404	
24198	54566	A	24336	213	1306	SCEHSVAHGRGIMDLSLLKALS EADAIASSEQEV RQIL\LEEADR LQKEVRVDGLGSVLIRLNESTG PKVMICAHMDEVGFMVRSISRE GAIDVLPVGNVRMAARQLQPV RITTREECKIPGLLDGDRQGN VSAMRVDIGARSYDEVMQAGI RPGDRVTFD TTFQVLP HQRM GKAFDDRLGCYLLVTQLRELH DAELPAEVWL VASSSEEVGLR GGQTSYTRAVSPDVAIVLDTAC WAKNFDYGAANHRQIGNGPM LVLSDKSLIAPPKLTAWVETVA AEIGVPLQADMFSNGGTDGGA VHLTGTGVPTVVMGPATRHGH CAASIADCRDILHMQQLLSAFI HKSNELGGVLRRLRIQICRDGNE
24199	54567	B	24337	1	1075	

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24200	54568	A	24338	438	1462	QIVQCLDVPSYTFIWFVLDPIY GDSVSTGLVVAIISIIVNAITIPIG LYLLNPSSGADGKKNSNLSALI SAAKEPVVWAPVLATILVLVG VKIPAAWDPTFNLIKANSOVA VFAAGLTAAHKFEFSAEIAYN TFLKLILMPLALLLVGMACHLN SEHLQMI\TLASALPPAFSLKLIY CAA/ARLMCYTRTGTSLAITLT ETVTQKLTGSRPRISSYGRNLM WPLAWYKDNGKPHLCSQLETT RIHSTAAQGRSSGSLRRGLGAS PFYRQHDQARSEGQIPITRIPMG LAQRAPKGRAQPRGLTAPFTN GALGQPQGRGTSKQASQTRPR ASAWPHTPT
24201	54569	A	24339	30	177	GSQYQRCNNNAASDRLRSYRK QPAER/WLAPPIDSITSPASRRALILLY
24202	54570	A	24340	3350	3430	
24203	54571	A	24341	425	824	SISGSENACFNAT\NHSGRYSQY GACLTSSSSCRKGQLARRGLSYQ SPHAPADPAFPAARRSPVFCLS DDGGHKSPRDMSPDKPSRHPD QVALTRRIPSPAVALPSVVKR TVHEGQGDDDESNPSPSPDVH
24204	54572	B	24342	1	2118	
24205	54573	A	24343	1	888	
24206	54574	A	24344	730	1101	
24207	54575	B	24345	1	1992	
24208	54576	A	24346	880	1103	TMMRRLISRQPVLPLOKCFSVLI SNPWRVFGGTGGGNQER/CRY AEESVAETRLCP*CRLYAEYDP GSGCAGLSL
24209	54577	A	24347	1	952	MITLRKLPLAVAVAAGVMSAQ AMAVDFHGYARSGIGWTGSGG EQQCFQTTGAQSKYRLGNECE TYAELKLGQEVWKEGDKSFYF DTNVAYSVAQQNDWEATDPAF REANVQGKNLIEWLPGSTIWA GKRFYQRHDMIDFYWDIS GPGAGLENIDVGFGKLSLAATR SSEAGGSSSFASNHIDYS/NEN AND/VFDVRLARWDSPPGGPLTG FPPSALACTSGVSGQKGVPGPP EAQVTFATPKKPGKEACSSIQV LNRGYRPPTFSYNTGVRRSARD YYP RRQRSISTNSPSRRWKGL NSRRCSTGNRPLVGAVS

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24210	54578	A	24348	805	1274	ASFATTRPVTKLAMRVAIFDSV VGQRYWGSAASPEHSRFAVLW ILASIFR/DRIASLRVQATVKS*K MS*AWYWQGCFRNWKSSPA*Y QFFSPARSASSHFAGEPVSLHSP IALGYRSSESSSCHTSTASLSVH RDYAHHLHGLRFDHSSSRRLCY C
24211	54579	A	24349	275	490	
24212	54580	A	24350	1	696	
24213	54581	A	24351	1	735	MFTPDYRSVSRVLGSGPGYASR MNQPDVMPDIPGKRIFYQRHDV HMIDFYWDISGPGAGLENIDV GFGKLSLAATRSEAGGSSSFA SNNIYDYTNETANDVFDVRLA QMEINPGGTLELGVDYGRANL RDNYRLGKGLSQSGVAFDNE KFAYNINNNGHMLRILDHGAIS MGDNWDMMYVGMYQDIHWD NDHG\TK\WWTAGIRP\MTKWT PIMNTGMKF/GYE/NVESQGGP QNIRTIYLAKP*QPDVMPDIPGK RFYQRHDVHMIDFYWDISGP GAGLENIDVGFGKLSLAATR EAGGSSSFASNNIYDYTNETAN DVFDVRLAQMEINPGGTLELG VDYGRANLRDNYRLGKGLSQG SGVAFDNEKFAYNINNNGHML RILDHGAISMGDNWDMMYVG MYQDIHWDNDHGHQVGGPAG IRPDVQVDAHHEHRDEIRYEKL NPRARDKTFVQFTSQNPDR
24214	54582	A	24352	1	3414	MIVQPLAIIGSHFDSIAAGNLAR PIAVYGRNEITAIFASLKTMMQ ALRGTVSDVRKGSQEMHIGIAE IVAGNNDLSSRTEQQAASLAQT AASMEQLTATVGQNADNARQ ASELAKNAATTAQAGGVQVST MTHTMQEIAATSSQKIGDIISVID GIAFQTNILALNAAVEAARAGE QGRGFVAVAGEVRNLASRSAQ AAKEIKGLIEESVNRVQQGSKL VNNAATMIDIVSSVTRVNDIM GEIASASEEQRGIE
24215	54583	A	24353	1	2493	

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24216	54584	A	24354	1	1201	MQPALLIVLNKVRQEARRRAR ACRIRRASGIVQFGKVRRQLAA VELRQRQTPERFVLLRGTRQQA TGQRIVKTEQRVIIITQRSFRRPG EGRRINDHFRFPAHLPSIRPIGK HQTPFGISGHHFNFFTVAIGDDI AQLDRIGANQSVLKGFNKFFV QYATDSMTSQGKGLSQSGSVA FDNEKFAYNI/SFNGHMLRI.DH G\INWDNDNGTKWWTVGIRPM YKWTPI MSTVMEIGYDNVESQ RTGDKNNQYK\TLAQWQAG DSIWSRPAIRVFATYAKWDEK WRYDYTG NADNNANFGKAVP ADFNGGSFG\RGDSDEWTFGAQ MEIWGLSRASGTLVTRAWRYK TTPTRHCLLMNHYAGEAAMR WKNYLKSTQKVQLQNFANWP KYSLSLTFHFPSKSC
24217	54585	A	24355	188	406	FIRSFDPSPVPSVLD RFFVLSTVF HSSSIFLVVIDRPSVGEPSL.F*V GGSCPTNSLYRCSGLAWYL.MR SMD
24218	54586	A	24356	1	1798	
24219	54587	B	24357	1465	7841	
24220	54588	A	24358	174	3762	TLNDAMRREKCLARINRTAKS GVVMPKLV TWMNQVRGELT KLANGAHTFKYAPEWLASKYA RPLSLSLPLQRGNITSDAVNFF DNLLPDRTIVRDRIVKRYHAKS RQPFDLLSEIGRDSVGAVTLIPE DETQH HYESLTITDEGEFVVVFV GPSGCGKSTLLRMIAGLETITG DLFIGEKRMNDTPPAERGVM VFQSYALYPHLSVAENMSFGH ATGLAQHKEVAEVLPSRRICWI ANRKRSPVVS VSVWRL
24221	54589	A	24359	364	845	RPLLDHGSSPRLNFLRFWYVVH AHTLMRMTEGWAGFDIL.RPYR WRRVIAFVVAFYFRHLIALLVV QM HFKL VKGNVDVVF TAQLID STVQLIDSTTTVTQFTHIQTQLM IQRAGTKCRKEDFRHWFVHHIP WVL/MSPPSVTLYALFPDRSHR PRRDGSPDA
24222	54590	A	24360	781	1275	

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24223	54591	A	24361	1	1185	MDKFDANRRKLLALGGVALG AAILPTPAFATLSTPRPRILTLNN LHTGESIKAEEFFDGRGYIQEELA KLNHFFRDYRANKIKSIDPGLF DQLYRLQGLLGTRKPCGYVT TAPAARSYRLTSKFIAVGQKAL SSLNIIHIAAPHLEALIIGESDTK NFASHDHAILYKLEPTTGMLR TRAYIGQHMPLYCSAMGKIYM AFGHPDYVKSYWESHQHEIQPL TRNTITELPAMFDELAHIRESGR TMDREENELGVSCIAVPVFDIH GRVPYAVSISLSTSRLKQ/PRQH RFRLRERQPAGGTPPAGTNSVT GGASLHHARCQRRK*KPYRPER A/ESFLPARGKICWP*AGTLTVC IMASASRLISGCTPDSTCWSTA HAPICRRRGRAINRCHCSS
24224	54592	A	24362	1	801	
24225	54593	A	24363	1523	1950	LLPA/AQKRRVDFLRATDFNAL MPGVVEIDGKNIYTQIIDLTRE AVVNRPEVHRRYIDIQFLAWGE EKIGIAIDTGNNKVSESLLQNRN IIFYHDSEHESFIEMIPGSYAIFFP QDVHRPGCIMQTASEIRKIVVK VALTALN
24226	54594	A	24364	281	997	LTFARLKGITRKIGRLQSRRRKR CKAMGVDVNRVYSLDELVRG NDILFSATGVTGGELVNGIQQT ANGVRTQTLLIGGADQTPMAT LTEDDVLEQLDAQDNLF\FSMK TAHTILLQGIRQFLPSLFVDNDE EIVEYAVKPLLAQSGQIDDIDV ALRLIYALGKMDKWLYADITH FSQFWHYLNEQDETPGFADDM TWDFISNVNSITRNAMLYDALK AMKFADFSVWSEARFSGMVKT

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24227	54595	A	24365	263	1410	AMISRRRFLQATAATIATSSGFG YMHY/CLNSDAIALGIEQRPDLI LLGGDYVLFDMSLNSSAYS LSPLAECAPTFACFGNHDRPVG TEKNHLIGETLKSAVITGMLNQ ATVIAYANRPFELVGTGDLWS GQCKSASASETNLSRLVLAHNS CSKEVMRDEPCDMLGSHTHR WQLSVPMAGEPFCHVADERYV LGLNAFCERHIYTIPRGGKRIPQ TFAADLPKGITVNPVQSTITEE TFQTLLVSRALEKLGTYVNKPS EVDYNVGYTSLASGDATFTAV NWTPLHDNMYEAAAGDKKFY REGVFNAGAAQGYLIDKKTAD QYKITNIRQLEDPEIAKLVDITNG DGKADLTGCNPGLGFEAINH QLGAYELTNTVTHN
24228	54596	B	24366	1	2872	
24229	54597	B	24367	1	1704	
24230	54598	B	24368	1	1470	
24231	54599	B	24369	1	2301	
24232	54600	B	24370	1	900	
24233	54601	B	24371	26	856	
24234	54602	B	24372	1	1743	
24235	54603	B	24373	1	1410	
24236	54604	B	24374	1	957	
24237	54605	B	24375	1	2742	
24238	54606	B	24376	755	1816	
24239	54607	B	24377	1	1968	
24240	54608	B	24378	926	6441	

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24241	54609	A	24379	1	1739	MTWTHEAVNRREPLRGCEPNW DVDVKPAGCMISRRNELPYTLG LRIDMLVDLGTASLMGQSSVY NTTDRHSTHRMDGLEQLMQQA DFAADIAVVAPWDNWSPTAGR FGLIRLLDEQTAPYAWYTSPMH LMDEKCSCHRQRPVIGLNQPO YQSGTIEVDNVSFAYRDDYLV KNINLSVPSRNFVALVGHTGSG KSTLASLLMGYYPLTEGEIRLD GRPLSSLSHSALRQGVAMVQQ DPVVLADTFLANVTLGRDISEE RVWQALETVQLAELARMSDGG IYTPLGEQGNLSVGQKQLIAL ARVLVETPQILILDEATASIDSG TEQAIQHALRRDCSPIDHCDA DTILVLHRGQAVEQGTHQQLL AAQGRYWQMYQLQLAGEELA ASVQPLPNSDRRGSMKLVTVII KPFKLEDVREALSSIGIQGLTVT EVKGFGRQKGHAELYRGAEYS VNFLPKAAYTGKIGDG/KIFVAE LQRVIRIRTGEADEAALYLWHT ATERDGPFRNFTAGAFRASLPH PARHGRRPILAAPFMPVNPSPRI PRRRHLASGRSLRFNCCTAGDE TCSARSGERRSLVF
24242	54610	A	24380	547	684	

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24243	54611	A	24381	1	2208	MLLVASVSNAMSGQAGKEY TNIGVGFGTETTGLALSGNWITH NDDDGDVAGVGLGLNPLGPL MATVGGKGVYTNPNYGDEGY AAAVGGGLQWKIGNSFRLFGE YYYSPLSLSSGIQSYEEANAGA RYTICVQVFVVVMLIRNQLFTP VNTAIDGFATNYAIMPAYAVG EGVATHGLQFELMRTTGGNTQ HVFHHPPLPLFAMWRYAAEMFP YQQMCQFVRYHFFNKSFYVQ QQNGIEANFIAFQPRSGGGSA LGRNVFGFRYQPCQQDKQYV QSRIHPEGVGVGTQRVEHGQERC ANDHVQSSGTELMQEGVMSAS LKNQQGFSLEVMMLAMVLMV MIVTALSGFQRTLMNSLASRNQ YQQLWRHGWQQTQLRAISPPA NWQSGAAMLRVYHSNRLDVL EALMEFIVERERLDDPFEPMIL VQSTGMAQWLQMTLSQKFGIA ANIDFPLPASFIWDMFVRVLPEI PKESAFNKQSMSWKLMTLLPQ LLEREDFTLLRHYLTDDSDKRK LFQLSSKAADLFDQYLVYRPD WLAQWETGHLVEGLGEAQAW QAPLWKALVEYTHQLGQPRW HRANLYQRFIETLESATTCPPG YLRASLYAAIQHALASVREHTT LVVIAHRLSTIVDADTILVLHRG QAVEQGTHQQLLAAQGRYWQ MYQLQLAGEELAASKGHAELY
24244	54612	A	24382	2	729	DCSPLIDHCDADTILVLHRGQA VEQGTHTQQLLAAQGRYWQMY QLQLAGEELAASVQPLPNSDRR GSMKLVTVIIKPFKLEDVREAL SSIGIQGLTVTEVKGFGRQKGH AELYRGAEYSVNFLPKAAYTG KIGDG/KIFVAELQRVIRIRTGEA DEAALYLWHTATERDGPFRNF TAGAFRASLPHPARHGRRPILA APFMPVNPSPRLPPRRRHASGR SLRFNCCTAGDETCARSGERR
24245	54613	A	24383	683	1161	RTGHCH/SAFSFSTVLTSCLSRF SFLAHLRLQYLLRVAEPLPNSDR RGSMKLVTVIIKPFKLEDVREA LSSIGIQGLTVTEVKGFGRQKG HAELYRGAEYSVNFLPKVKIDV AIADDQLDEVIDIVSKAAYTGKI GDGKIFVAELQRVIRIRTGEADE

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24246	54614	A	24384	631	1149	FFGIKEQVITANNANSNRNKTD RCCRNWLEDHADNHCHKHSEV MPCLRRHTVGD RDKKH DTHH HQWGQ*FPYIIFWLVSPLIAISRS KVSTHGLRQRDFILLREASQSF RFVLRVYDVADHIAGKFTVHD LQFIGYHGGQAQLVAQVFSKES KAAGGNRHFPAQRFQLEHQLR
24247	54615	A	24385	833	1264	
24248	54616	A	24386	1	1632	
24249	54617	A	24387	2078	2371	
24250	54618	A	24388	1	159	
24251	54619	A	24389	530	811	RPGTGTA A QVLNRRIKISRST*L TVVMGYWSIIPSVSLLKWDRR KSPKCSSALRVNISNTLLSTARR RKRYLVIPALLVVRRCRPRGPS ACG
24252	54620	A	24390	1806	2115	AAFQEIELAFQDPQCVGLLTAP MLMPLFLDQLILQCFFW/W/TN LERA*TSFSALFIDLQPPGYRTT TSKHKVSSSLIKGHVLLDHSFH DLNTQLWISTNAFRFGN
24253	54621	A	24391	1476	1751	ALLLVSFASQRFISA/TVGNQNA GVDLLNLTLVGGIFVLNNAGN FAVFTGDT SITGR I IQFHRQQTN ATLRFSITQTLECFDRDQRHVA VEH
24254	54622	A	24392	606	4519	EEVVRAISAKRNEPEWMLEFRL NAYRAWLEMEEPHWLKAHYD KLNYQDYSYYSAPSCGNCDDT CASEPGAVQQTGANAFLSKEV EAAFEQLGVPVREGKEVAVD AI FDSVSVATTYREKLAEQGIIFCS FGEAIHDHPELV RKYLGT VVPG NDNFFAALNAAVASDGTFIYVP KGVRCPMELSTYFRINAEKTGQ FERTILVAEDSYAAKRLTDYP HQLSGGERQRM I AMALLTRP ELLIAD EPTTALDVS VQ
24255	54623	A	24393	129	256	

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24256	54624	A	24394	1	1082	MAMSKVKSTITRESWILSTFPEW GSQLNEEIEQEQVAPGTFAMW WLGCTGIWLKSEGGTNVCVDF WCGTGKQSHGNPLMKQGHQM QRMAGVKKLQPNLRTTPFVLD PFAIRQIDAVLATHDNDHIDV NVAAAVMQNCADDVPFIGPKT CVDSWIGWGVPKERCIVVKPG DVVQVTALEIHAPDAFDRTA TWLADQKRRRTVKGRTRPCN RSVTVRPRRRDAVIGRFYRHQS ITQKGLLLMVMPGCAFLWIDS ELNLTIFIDALFEGVSGITTTGAT VIDDVSSLPRAYLYYRSQNLFIG GLGVIVLAVAVLPLLIGIGAKL YQSEMP/AAI*G*QTHSPPGRYV TDTVDNLFFIRCRT
24257	54625	A	24395	49	281	ASDHRYLCSQSVPRLRGIPACYL LQAPLTRWR/RIPPSRRICAIDS AISRSPQRWLTAVCCGTVNFTN TCLLPDGVCA
24258	54626	A	24396	737	1419	CIWRMYSHRLVAWRRVCVKRR/ RYLTRFAKTRGVAIVMVGHVT KDGLSLAGPKVLEHCIDCSVLLD GDADSRFRTLRSKKNRFGAVN ELGVFAMTEQGLREVSNNRGR GKRKFISPKKTPALAKFRRNLL PPKVPNGTSVRFRHSRICWMN PLPGAAWNCILTLKKPISPGVQ VFPESFTPARLEAFAGRSQACL VPAQNILHQKSQAWLFDPEQE KELRELSAWMAGA
24259	54627	A	24397	526	1693	STTGIRSIAMSNPILSWRRVRA/ LCVKETRQIVRDPSSWLIADVIP LLLLFIFGYGINLDSSKLRVGIFL EQRSEAALDF\THTMTGSPYIDA TISDNRQELIAKMQAGKIRGLV VIPVDFAEQMERANATAPIQVI TDGSEPNTANFVQGYVEGIWQI WQMQRADNGQTFEPLIDVQT RYWFNPAAISQHFHPPGAVTIIM TVIGAILTSLVVAREWERGTME ALLSTEITRT\ELLCKLIP\YYF\ LGMLAMLLCMLVSVFILGVP YRGSVLILFFISSLFLSTLGMG LLISTITRNQFNAAQVALNAAF LPSIMLSGFIFQIDSMPAVIRAVT YIIPARYFVSTLQSLFLAGNIPV VLVVNVLFILASAVMFIGLTWL KTKRRLD

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24260	54628	A	24398	655	915	IAVNVTLAFNGGKQLR*STSL CCQEGLAFVNLQRHFRVQTIS FFFLPVLRFWRPGIQQAKKCHP APRTAKGIPQQVIRAMRLLFK
24261	54629	A	24399	549	827	
24262	54630	A	24400	472	626	WRFFRPRKDNIRRTLFADGHQI AAQPGLNLSCTRTIF*IKRINTFP GRWRK
24263	54631	A	24401	333	617	SDQSETDYRFADGERHLENQPH AGQTGRGGAGPGCTLYQRFAQ LCEVSEVERSGCRTLSAQHVEQ NLPAAICGGDDADGAVVHLWT TA*RTRIGTLRSGPKMNDISAISII TATDSGWKILLHMLS
24264	54632	A	24402	74	265	
24265	54633	A	24403	1	1005	
24266	54634	A	24404	1068	1185	SVAIRQASTGNRCQCLCPACA WA*VNADVK*SARVSRL
24267	54635	A	24405	1	2292	
24268	54636	A	24406	720	2496	RRAGYRKAADAMTTIVPEKLS REVGSHFHALDRTTAVHRQPVI SATTTVHEFLRCHQFPLVVC DG GRMTPRAMFLFSSAHILMPLNY HNSHINTLFPVAGTLMVEPTES ESKVELDRFIDAMLAIRAEIDQ VKAGVWPLEDNPLVNAPHIQS ELVAEWAHPYSREVAVFPAAL VTGGSRGIGRATALLAQEGYT VAVNYQQNLHAAQEV MNLITQ AGGKAFVLQADISDENQVVAM FTAIDQHDEPLAALVNNAGILF TQCTVENLTAERINRVLSTNVT GYFLCCREAVKRMALKNGGSG GAIVNVSSVASRLGSPGEYVDY AASKGAIDTLTTGLSLEVA AQG IRVNCVRPGFIYTEMHASGGEA\ GRVDRVKSNI PMQRGGQAE EF AVQTFPVWRVAQHCAVRPFRQ RIGQLRDIFHLKGDQFTNPRKT GVTPQPPCSTYPDPSPPPVPAAG HIDRPALAPTFTPPIMCSKATVK PLSPSPPGTDPASVLPFREQRA AVHRLRTVVTRHLLALRRDPF ANRHRQQDQRNGGFHHRQRHL HTGKTRSLHHHQFAALRQHPK TKQRRKQSRHREEDLHIFRHAQ
24269	54637	C	24407	49	186	
24270	54638	A	24408	470	811	
24271	54639	A	24409	1	1006	
24272	54640	B	24410	1	2793	

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24273	54641	A	24411	463	1258	CCRSSWCNSDSETGLQIVASYF EDRNGDS\LALRPEGTAGCVRA GIEHGLLYNQEQRLWYIGPMFR HERPQKGRYRQFHQLGCEVFG LQGPDIDAELIMLTARW\WRAL GISEHVTLELNSIGSLEARANYR DALVAFLEQHKEKLDEDCRR MYTNPLRVLD SKNPEVQALLN DAPALGDYLDEESREHFAGLC KLLESAGIAYTVNQRLNRYLS ANLIENNL SLFDGEGYRFYHPK PTKNAERENRQCRNDLFFRCGF
24274	54642	A	24412	221	832	TMAENQSTVENAKEKLDRWLK DGITTPGGKLP SERELGELLGIK RMTLRQALLNLEASKIFRKDR KGWVFTHPRFNYSPELSASFQR AAIEQGREPFWGFTEKNRTSDI PETLAPLIAVTPSTEL YRITGWG ALEGHKV FYHETYINPEVAPGF IEQLENHSFS AVWEKCYQKEPV VKKLIFKPVRMPGDISKYL GGS AGMP
24275	54643	A	24413	158	481	
24276	54644	A	24414	2201	2350	
24277	54645	A	24415	621	1830	AGWKRGGAGEPDQGLQA\EME VLENLQELKDLNQRQAHAESKI FRKDRKGWVFTQPRFNYSPELS ASFQRAAIEQGREPSWGFTEKN RTSDIPETLAPLIAVTPSTEL YRI TGWGALEGHKV FYHETYINPE VAPGFIEQLENHSFS AVWEKCY QKETVVKKLIFKPVRMPGDISK YL GGSAGMPAILIEKHRADQQG NIVQIDIEYWRFEAVDLINLCF MVTINNARKILQRVDTLPLYLH AYAFHLNMRLERVL PADLLDIA SENNLRGVKIHVLDGERFSLGN MDDKELSAFGDKARRLNLDIHI ETSASDKASIDEA VAIALKTGA SSVRFYPRYESNLRDVL SIIAND IAYVRETYQDSRLTFNIEWGKS SCCSPYVHPWAKLAAIYYRLQP HINDAF
24278	54646	A	24416	83	502	
24279	54647	A	24417	15	95	
24280	54648	A	24418	500	786	LTQRFGTVP LLLQ\AYLYSAFFF TPEFLRPAPPLFSA AVLPEQRQR AQGIGGLVIRPTVELHQALQLF FGHQPKIQLSHALLRGSTGFQA SFRLPL

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24281	54649	A	24419	1	2914	MYYSHASCVADQYACGMHRT PSRTGPRPIHAPRQARLKPQVK VASKKRNRARDKMQPPNEQQKT RAHACTPSSRFRAVVRTLTCPV VANVTRIFPRYFSNTRVLRRRR KQARGTWWRLRHLHLYVQPH KHTSYIYRLYRVTYVMSAQV VDTGIYEFTTRKHDIGTIELPNS EIRYHGNPAMSRPRKTPTPPNSP ASERATGPTTLLPPIRQRRYAA RHTSTIAYTNSTSDIFEAPYNKA APIMRYTSVYCSLFSP
24282	54650	A	24420	2	420	CPYPENRWGKILARPLLFRAA *ASRFAGAGMPGRLIPTVRPRN SNSGRLVSASRCAKESLTVTTC TPLPGSAVREASN
24283	54651	A	24421	212	497	
24284	54652	A	24422	1	1149	
24285	54653	A	24423	535	589	
24286	54654	A	24424	1	1458	MFDPETLRTFIAVAETGSFSKA AERLCKTTATISYRIKLEENTG VALFFRTRSVTLTAVGEHLLS QARDWLSWLESPERAATVW MFVPTPLSVASGLQRIGRAGHQ VGGVSKGLFFPRTRRDLVDSAV IVECMFAGRLNLTPPHNPLDV LAQQTVAAMDALQVDEWY SRVRAAPWKDLPRRVFDATL DMLSGRYPSGDFSAPRKLWV NRETGILTARPAFAADSDIAD GQTQRFDFSILQSMADLSQTA WR/GIQYDAEKSLWHNVENRQ LDAQFFHMGMGFRRVRMFVS DPATHLAREIHFRPELFKYND GVDTKQLEGQSDLGFAGFRVF KAPELARRDVVSFLGASYFRAV DDTYQYGLSARGLAIDTYTDSK EEFPDFTAFWFDTVKPGATTFT VYALLDSASITGAYKFTIHCEKS QVIMDVENHLYARKDIKQLGIA PMTSMFMPRKNASRLSKRCYDI RERDGREERK
24287	54655	A	24425	157	650	PIRSTCLFKPLITQCFRQFGSE GVNDHLLGILLIDPARAQIEYLF IINTPHRRVAFAFHICIDFQLRF RIHFRQFAHQIIVVGHLTIRFDG VLRDQTVKYRAAFVADDSF VQLSAVTKTFIVFQPGTGITHLV FHRHRQAQ*PFKVPFSRRLRNGI HTHC
24288	54656	A	24426	269	2024	

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24289	54657	A	24427	1	3548	MPRSNYFSERCKGEIFLKFENM QRTGSFKIRGAFNKLSSLTDAE KRKGVVACSAGNHAQGVSLSC AMLGIDGKVMPKGAPKSKVA ATCDYSAEVVLHGDNFNDTIA KVSEIVEMEARIFIPPYDDPKVI AGQGTIGLEIMEDLYDVNDVIV PIGGGGLIAGIAVAIKSINPTIRVI GVQSENVHGMAASFHSGEITTH RTTGTLADGCDVSRPGNLTYEI VRELVDIVLVSEDEIRNSMIAL IQRNKVVTEGA
24290	54658	B	24428	1	2691	
24291	54659	A	24429	2174	3315	NLPKPDWARSAPHPASANYKS NTRRLPFAREQ/QDQHTLLAGT LFIAKILIPMQIAQSAAYRRRC DAQLHFLPLQLAPRGHRYKRV CQVRYPPHIALIPVVFRLMNDAN GLSQPADAGLAHHEMRNFLDF ASSNVAASRRRCVAALPCATG KGRQANEQAENKCSKDPQTHR TDNKETKTPPARPTTTTQPHTK EEEEPLSTPTQTKHPPTHVTGTGP HPTPASGQTEKHERKRPTQQKS NARQNSKDKRTPNKSSTTKPN RGYNQHPAGEPTMSTHEKVVP HOQNRKIQAPPKRQKTDHRHT HNTHPHPPHRAASTTTQAAPP RRATRSGETSATAHNNTEPHGTR HTQPGDHKRAEEHRTADEPT PPEHTLPSHTQLGP
24292	54660	A	24430	1	2925	
24293	54661	A	24431	341	689	RPLAFRQRCTFYWR\PGSANCR LV*GASGTDPRLYSPCAAAADD CRRQNAARRRRATSGD*SPHR RWENALLFDSRHRHCPRRAKN AGGEYRQRGIAGSDLQQRFTA AEKDHSRS

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24294	54662	A	24432	1	1931	MGTLLGTLTLVTLVAEELPAET DVAADPAASPTCTAVNQTIGRA IVAADFFIIFQLWQNTVRQLVT HFKPHGQSEMSDTPELINRARY LTYLYCRQPAKAIRELSEQELA WKKQATHEYQVLVTRCKQTL HQVEPLREIEPGRKRLVFDENL RPKQNPPIHLLDTCWPLTVDEH ANRSSIGNNNISFVVNRAVVTN VLNTMRTACNSQATIQIYNADI ARDFGTRGIFSINSGFSTVIRGG VVTVDLSAGAAIGDSALAFVID DGLVAVNLDTDGLRIGDGHGA LVIHRCVAGDINTVTAAADM DLEDPRIISARFGVPRQTQVRTW VALYEKHGEKGLIPKPKGV SAD PECVLGRES CDRAAHVPYQAA AHFMLAGSGSVARWLKVYEER GEAGLRALKIGTKRNIAISVDPE KAASALELSKDRRIEDLERQVR FLETRLMYLKKLKALAHPTKK AAEIPRSTFYHLKALSKPDKY ADVKKRISEIYHENRARYGYRR VTLSLHREGKQINHKAVQRLM GPSHLKQRLRSSDTALTEERDF KATRPNEKWVTDVTEFAVNGR KLYLSPVIDLFNNEVISYLSER PVMNMRRSRPGVGYFYALTPV YLANRLQALLGVEQ/HHPDGEL FLTGYVADGGYHS
24295	54663	A	24433	3	158	
24296	54664	A	24434	1	3432	

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24297	54665	A	24435	1298	2649	TFITRPTSNGTSIFKLMNRRRL EGNVATLR/RLTIGMIFQDHHI LMDRTVYDNVAIPLIAGASGD DIRRRVSAALDKVGLLDKAKN FPIQLSGGEQQRVGIARAVVNK PAVLLADEPTGNLDDALSEGIL RLFEEFNRVGVTVLMATHDINL ISRRSYRMLTSLSDGHLHGGFGG RLDRFRKSVGGSGDGGRNAPK RAKSSPKPVNRKTNVFNEQVR YAFHGALQDLKSKPFATFLTV MVIAISLTLPSCYCMVYKVNQ AATQYYPSPQITVYLQKTLDDD AAAGDPDRPSLQLRWRVIPGFS IAVAIYFLNESLGRPLMITGYS ECSLLAWPVRSGLRKAPMKTFP LQSLTIEAQKQFALVDSICRH FPGSEFLTGGDLGLTPATELKPR RLPSGVEQVLADAFHAQAAAL VQGAGTGAIAGLAALLKPGQ RLLVHDAPVYPTTR
24298	54666	A	24436	546	707	
24299	54667	A	24437	428	1464	RNSRSLAEISRLRGQTRSGI.PM LLNLQSMGAS/WYLSPVIDL.FN NEVISYSLSERPVMNMDHHI.L MDRTVYDNVAIPLIAGASGD IRRRVSAALDKVGLLDKAKNFP IQLSGACWHCRAVVNKPAVLL ADEPTGNLDDALSEGILRL.FEEF NRVGVTVLMATHDINLISRRSY RMLTSLSDGHLHGGFGGRLD RFRKSVGGSGDGGRNAPKRAKSS PKPVNRKTNVFNEQVRVAFHG ALQDLKSKPFATFLTVMVIAISL TLPTSCYMVYNIKSERISDIST QLNAFPGCEVAVSDAPSGQLIV VVEAEDSETLIQTIESVRNVEGV LAVSLVYHQEEQGEETP
24300	54668	A	24438	1	429	
24301	54669	A	24439	307	424	
24302	54670	A	24440	300	468	
24303	54671	A	24441	946	1558	KGCVSIPFFSFSWAVMSNLTYL QGYPEQLLSQVRTLINEQRI.GD VLAKRYPGTHDYATDKAI.WQ YTQDLKNQFLRNAPPINKVMY DNKIHVLKNALGLHTAVSRVQ GGKLKAKVEIRVATVFRNAPE PFLRMIVVHELAKKEKEIINK AFYQLCCHMEPQYHQLEF'DTR LCNRIRLNGHDHFRRRYAI.FRV NTGRTASPIQP

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24304	54672	A	24442	1	774	
24305	54673	A	24443	1	452	MELKKLMEHISIIPDYRQAWKV EHKLS DILLTICAVISGAEGWE DIEDFGETHPDLKQYGDFENG IPVHDTIARVVSCICPAKFHESFI NWMLDYHSSDDKD/DHRN*W KNTPAFL*QESP*GSDSCH*CVL NNAQSGHRTDQDG*EIQ
24306	54674	A	24444	486	572	
24307	54675	A	24445	1	683	MHSLVIGQIKTDKKSNEITAPE LLNMLDIKGKIKTDAMGCQKD IAEKIQKQGGAVMNLQRFDDST LIRIFALHELHRLKEHGLTRGAL LDYHSRYKLVLAAHPQPESRK LGPFFVADIHQWQNLDDYSPQY RQRVVVLLSHPANARDHTNVL MHVQGYFRPHIDSTERQQRLAL IDSYRRGEQPLLAPLMRIKHYM ALYPDAWLSGQRYFELWPRVI NLRHSGVL
24308	54676	A	24446	896	1066	WRLSPSSR*LMPKVPRIQAYFT T*YCS*VIQRSPC*FHCYSRSIPW AWGAGKQSLT
24309	54677	A	24447	1	3660	
24310	54678	A	24448	1	1530	
24311	54679	A	24449	1	1890	
24312	54680	A	24450	746	1872	KHWRGSLISLSTPARFNGGPFW GANQGGDPKGRGGSQRALFRR KNNRGGETVSGAEDACIVNNN AAAVLLMLAATASGKEVVVSR GELVEIGGAFRIPDVMRQAGCT LHEVGTTNRTHANDYRQAVNE NTALLMKVHTSNYSIQGFTKAI DEAELVALGKELDVPVVTDLG SGSLVDLSQYGLPKEP\MPHELI AAGVSLVSFSGDKLLGGPQAGI IVGKKEMIARLQSHPLKRALRA DKMTLAALEATLRLYLHPEALS EKLPTLRLLTRSAEVIQIQARL QDPLAAHYGAFAVQVMPCLS QIGSGSLPVDRLPSAALTYTPH DGRGSQLES LADRWREL PVPVI GRIYDERLWDLRCL EDEQRFL
24313	54681	A	24451	1358	1419	

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24314	54682	A	24452	1	1568	MKGRNIDAQEIQKRYGMVGGP VIIGVVLGLIFGLAAGEGFKGC ASLMITVAAIMVLFPRMIRLIVE GLLPISDGARKFFQKYFKGREV YIGLDTAVTLGHPTTIAVGLLLI PIMLILASILPGNKVLPLADLPV APFFICMATVIHRGDLVRTLISG VIVMITVLLIATQFAPYFTEMAL KGGFSFAGESAQISALSVGNMF GWSISELMSLGIIGRVVAVGIVA SVVLFLRVLSMSWLKEVIGTEK AVIAMCHLRALPGDPSFDAQLG MNWVIDKAWDDLMLALQNGG VDAVMFSNEFSLPYLTKVRPET TAAMARIIGQLMSDIRIPFGVNV LWDPVASFDLAMATGAKFIREI FTGAYASDFGVWDTNVGETIR HQHRIGAGEVKTLFNIVPEAAV YLGNRDICSIAKSTVFNNHPDA LCVSGLTAGTRTDSALLKRVKE TVPDTVVLANTGVCLNVVEEQ LSIADGCVTATTFKKDGVFANF VDQARSNNPSAIPAAFVKSIDG DRYQINPNRHGVNDG
24315	54683	B	24453	1	3352	
24316	54684	B	24454	60	2284	
24317	54685	B	24455	1	2475	
24318	54686	B	24456	1	2890	
24319	54687	A	24457	1065	1139	
24320	54688	A	24458	282	615	
24321	54689	A	24459	2657	2919	
24322	54690	A	24460	1	835	
24323	54691	A	24461	167	338	
24324	54692	A	24462	834	1515	LRWCSMPCCRWSKDRAAPSPA YSRLSSHVIAAGYVGGGVARG\ HSWVFVALTLVLTAVLFSLAGL LNGVFAKTFDDISLVPTFVLTP TYLGGVFYSLTLLPPFWQGLSH LNPIVYMISGFRYGFPLNHNH PGVAVDINRLLLPRKQEKLGK LDKDQLIAGVQDAFADKSKLS DQEIEQTLQAFEARVKSSAQAK MEKDAADNEAKGKEYREKFR QIPSVSSCQKQ
24325	54693	A	24463	3	557	
24326	54694	A	24464	255	693	
24327	54695	A	24465	3	242	QKAPVLANQRQPRRPTGALLLE /SLPLVAESSDG*EPMTNATEPH SRPLP

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24328	54696	A	24466	1	2636	MKNIIRTPETHPLTWRLRDDKQ PVWLDEYRSKNGYEGARKALT GLSPDEIVNQVKDAGLKGRGG AGFSTGRKWILMPKDESMNIRY LLCNADEMEPGTYKDRLLEMEQ LPHLLVEGMLISAFALKAYRGY IFLRGEYIEAAVNLRRRAIETTE AGLLGKNIMGTGDFELFVHTG AGRYICGEETPPLLKPQTGVWQ RHSCWKLQELAMNDRDFMRY SRQILLDDIALDGQQKL.LDSQV LIIGLGGGLGTPAALYLA
24329	54697	A	24467	506	673	
24330	54698	C	24468	1	3411	
24331	54699	A	24469	2455	2694	
24332	54700	A	24470	1	1081	MGGLRDPWLHKLRSLWGLCR YGHKEQYDHIRIELNLAPGDIIT LVPTGLAIHIADPSLAAMMLPR SGLGHKHGIVLGNLVGLIDSDY QGQLMISVWNRGQDSFTIQPGE RIAQMIFVPVVAEFNLVEDFD ATDRGEGGFHSGRVFCNMAE KQTAKRNRREEILQSLALMIES SDGSQRITTAKLAASVGVSEAA LYRHFPSTKTRMFDSLIEFIEDSLI TRINLILKDEKDTTARLRLIVLL LLGFGERNPGLTRILTGHALMF EQDRLQGRINQLFERIEAQLRQ VLREKRMREGEGYTTDETLLA SQILAFCEGMLSRFVRSEFKYRP TDDFDARWPLIAASCSNMTPD
24333	54701	A	24471	93	475	RCKCADAATR GKSR RDLPDVQ NSARQYG/WI/GCATHARSG*HI VEAVQSG/TPPQPLRPRGTSRKV STDYWRASQLPAQYQDLTSI YDVYTPDRVAKRAFKSPDD GPVMWRMGHQPHLIPRNVLAQ
24334	54702	A	24472	254	1150	RFLTCRYGPGMAEDMQSLVGG TVTRSG*LSVVVNNNGE/LLAK ELSVQVGIRPEYLDRLHAFSG GQRQRIAIARALSSQPDVIVLDE PTSALDISVQAQILNLLVTLQEN HGLTYVLISHNVSVIRHMSDRV AVMYLGQIVELGDAQQEIAQA LRRTPAPMVYIGNLGRELSIPA ANLKLESKLAIMEQYVGKKVID AVIVGPKVDVSAVKERIVIQEV LEASDIPYRHDRQLLHNALEKA LQALGGLEVIQLYRRDSNLVPG QLLKTSEMKGTRLYAADSRLIA AKGSPIQPTLDSLK

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24335	54703	A	24473	1874	2927	KEDQVKGGMVCPPKLLCQGTR *RGGVVGGISQASVTSVIGYSA SCQPTPAIMQLHL/ANAA SRRL QPDRNRPNPGWHRPPIHAFTTP GLVSVSFLGYPCSTPTCLPFSES SVGESVNLWPQSNENLRRTL GEGNLLLTFIGNGKHEIIASIFFA FSEGISAQSHWQPRYISPASVCT LVTEIDIKANKITFSIFDENAGA WLPPFCKAVVPGWVYKPNLGH EIACVDHWLMPNRLIENLCDIM LPIWVLTKFNDCCAGCVPCCVII VDDALHGAPKRMCCITRGMRL LLKLSVHAATRSTLQQASHGH CAWSAPGWLDTSMDGDRWL WTLHEVLRDLCTSHGNIVESAR
24336	54704	B	24474	1	672	
24337	54705	B	24475	1	2496	
24338	54706	A	24476	3260	3363	RPDSGGP*RQRRYLRCADHRRR AVRNQQQLTACA
24339	54707	A	24477	112	224	
24340	54708	A	24478	1614	2326	CTYSRKCRPDKRSASGNFALSS LKSSPLTKNRRYWKVSPHLLL SKRPKISLNAYFGACSLVRPVL AAASDWTLQGAWSPTRAKALP ICESWRIPYADSLSSLAASCDV FVHSSTASHFDVVSTLLNAGVH ICVDKPLAENLRDAERLVEGM REWREERGQGVVHKPIPGWQS TLEQRGFVGCARHFIECVQNQT VPQTAGEQAVLAQRIVDKICSS FNVVRVAPLGDPIQSKPVV
24341	54709	A	24479	19	885	
24342	54710	B	24480	1	1704	
24343	54711	A	24481	974	1156	

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24344	54712	A	24482	162	1602	HRRKRARGTPKATTTTRKPARTI ETLSPLLAILAFAPKLAICTRSPL L/DDMTPFTQCTNAYSHSGIRNP TAISSAAYPRRITGY/KLGPTGE ERTVYGIYGISESNLAECEKGV KSAVALTPALQPIDGVA VSYID AAVALGNTINEMDKYYTQENY KDDAFAKGTKLHQTFLLKNLEA FEPVAESYHAAIQEINDKRQLA ELKNIEEREGKTFHYSLAVMI SAKQINNLLISQDKFDAEAMKK VSELETLVAQAKEADKGGMNF SFINSAGQYQLEAKKYVRRIRD KVPYSDWDKEQLQDANSSWM VEDSFPRALREYNELMTRIGG GAGDQDMVNDFSYSPQLVGRG WFNDQVATGCTRDSTFNQQQV ALSVNAYYVVNRFKIDWKPM YAEADKLLAKPNMRFKSDKLV GDLSIGDQQMVEIAKVLSESK VIIMDEPTDALTDTEAESLFRVI REMKSQAPRYCLYLPPHENNL
24345	54713	B	24483	1	1263	
24346	54714	B	24484	148	894	
24347	54715	B	24485	1	1071	
24348	54716	B	24486	168	1088	
24349	54717	B	24487	1	1236	
24350	54718	B	24488	1	849	
24351	54719	B	24489	1	1548	
24352	54720	B	24490	1	1372	
24353	54721	B	24491	1	2469	
24354	54722	B	24492	1	1917	
24355	54723	B	24493	1	1159	
24356	54724	B	24494	1	2294	
24357	54725	B	24495	217	2476	
24358	54726	A	24496	477	916	SLPECEDRVQYRRSLFADPSYR YGLARHGDP RRAGRLRDV*PL HE*YRHWHDQS/RLLIASVLPQ VWHGACNAMTSSCIARQVS*N TALIIRMRKGDLSA VMSSQTGL INIVRRGLLLSCFRLTAMKISTV SPFRPQMPSIVRSVWC
24359	54727	A	24497	1136	1317	
24360	54728	A	24498	3	317	
24361	54729	A	24499	1	1245	

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24362	54730	A	24500	85	1293	ITVATTQHQAGLTLRRAGIRQP DMAVQRDHLPPFRVAGVIRHIM LMLHSQRRGTGLLITAKNRLFF QRRSVPKFHSKLNQAYCLIAAT DCPRLLLLICRYPHHFLHQLIIL AIGIGSAVFEPHQIIGVSRCCPR HLGVERVLFLLFNDFIEQVIIRC HVVCQSAPAAANIQYAHWPWF* LQFFTNHFELRLLGRFQIIGIFPV SAGILHEGIKHAAEQVITQIVML FADYPGTFFTL/RD*RDERRQY AACL*NDGGVGSRDRLRVRLC* KTPVVGHIPTSHYPN/CSPNPKE PSCRTLLKKSGFFTRISAGAEPL MAIPARLSNSLACGARDSAAKE VLLWFRFVLLKQTLNWTTK NVTSLWRTLGSPPGVKEVRAW TIPV/VSNRAAGSGQNPY*F*KR
24363	54731	A	24501	2794	3531	SPRDSPTFWTKGGPGGSRGKAL RLVVGTDHFQAADNIPDHMMY KSIRFNIYHHIRTVTRDINMHN APRGSLALHRTERGEIILAQQ ALRSPMHPFSVQRFVKMGYPFT QYRRAQPMIVDDVAITASRGA KSGMKIIRYSFNPTSDVTR*IRI YAQQPRRVFAQRGCFEMHNLP GTVYPCVSTPGAEDGDGFVRH LGERLFQLLLHTADFLPLPAVI LTGGVLNAQRNFNRLLPYVE
24364	54732	A	24502	1	1767	
24365	54733	A	24503	1	1275	SNPTAIGGRPRRPYQAEDRSLD FVDALNRKILKDSIFHALQTIM VGIKDFLRLTQVFFDLATRIPRH LYHPVDITTHYGRFCRHRRHFF QLLQLCFRFLFCLFRHLRRVDF ALQGFVVRVVRVHFTEFFLNSF HLLVQIVLTLGFLHLLFNAN AFLNLQQIDFRFHHCHQIFQTFV NVGHLQNRHRKIGIVFRSDVL EHPHRNNTIKLVVQVTIILQQN GDIQAFATFLSHLLFGRNGDA HHAYVVIIRCHVVCQSAPAAANI QYAHWPWF*LQFFTNHFELRLLG RFQIIGIFPVSAAGILHEGIKHAAE QVITQIVMLFADYPGTFFTLQIE ETSAGNTQRFVEMMGELVLET RLRSPAGFTQWIPHQGCRWSCL PVPRGTLALLSPWVVDGTGRR GAGGGTPQGGSSCTGAHGGGG
24366	54734	A	24504	1	2052	

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24367	54735	A	24505	1	1060	MNARQQVAALRVPGVEKATIV YRRSLQEMPAWREEYEEALHD GFRFLNNPERFDADGTLTLRVM SLGEPDEKGRRRPVETNETVTL LVDSLITAIGEQQDTEALNAMG VPLDKNGWPDVDHNGETRLTD VFMIGDVQGRGPSSIVA AVGTAR RATDAILSRENIRSHQNDKYWN NVNPAEIIYQRKGDISITLVNSDD RDAFVAQEAARCLECNYVCSK CV\DVCPN RANVSIAVPGFQNR FQTLHLEA IYCNECGNCAQFCP WNGKPYKDKITVFSLAQDFDN SSNPGFLVEDCRWVPHRGLYH RLYREPTWRSEWPRRHICPEGS TFPERHCDHLSANNSRNKLLPL QKPGFIN
24368	54736	A	24506	1316	2678	
24369	54737	A	24507	2172	5242	IYFSERLPALCTPD AHYREPCQ YNCTRLDYDSALNIRELKKVAL EKGWDEYKQRWHKPAGSGSR HPVAVIGAGPAGLAAGYFLAR AGHPVTLFEREANAGGVVKNI VPQFRIPAELIQHDIDFVAHGV KFEYGCSPDLTIEQLKNQGFHY VLIATGTDKNSGVKLAGDNQN VWKS L PFLREYNKG TALKLGK HVVVVGAGNTAMDCARAALR VPGVEKATIVYRRSLQEMPAW REEYEEALHDGVEFRFLNNPE
24370	54738	A	24508	192	484	RGLVHRGRYRWRQKWSAGSP ARHPV/SQSTTDTPATHALSTKII SPIPNAPISALARTTATRL*RSM NQPPVKRPTVIPRVKPA*ISEPE VGPIILGP
24371	54739	A	24509	1	1713	
24372	54740	A	24510	1	651	
24373	54741	A	24511	3	783	PVLSKTPLTAKAIDAAQPQDKP YKLTDSLTPGLFLLVHPNGSKY WRFYRWLNKREFLQAIGVYPLI TLKEARRRATESRSLIANGINPV EQARKEKAIDALNMAAGFKKV AEDWFATR VGGWSESYAKQV RSALEKDVYPVLGKRSIVDITA RDVLALLQKKERTAPEQARNV AGASVRSSSLPLSPNWGGWLA RAAFPHHITIAARMTKHPPCW WCTILACRQASLAVRGSTHYSL ELLIRRHILLSLRSPICASPLTV

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24374	54742	A	24512	746	2387	WTALPARLKQIRSGRKLPLTVM PALRETDTFDTFMESWYYAR YTCPQYKEGMLDSEAANYWLP VDIYIGGIEHAIMHLLYFRFFHK LMRDASMTNPSSVPRAGGPAL LFENPKGYSMPVLCNLFGTPKR VAMGMGQEDVSALREVGKLL AFLKEPEPPKGFRDLFDKLPQF KQVLNMPTKRLRGAPCQKIV SGDDVDLNRIPIMTCWPEDAAP LITWGLTVTRGPHKERQNLGIY RQQLIGKNKLIMRWLSHRGGVA LDYQEWCAAHGPERFPVSV GAVPATILGAVTPVPDTLSEYA FAGLLRGTKTEVVKCISNDLEV PASAEIVLEGYIEQGETAPEGPY GDHTGYNEVDSFPVFTVTHIT QREDAIYHSTYTGRPPDEPAVL GVALNEVFVPILQKQFPEIVDFY LPPEGCSYRLAVVTIKKQYAGH AKRVMMGVWSFLRQFMYTKF VIVCDDVDNARDWNDVIWAIT TRMDPARDTVLVENTPIDYLD ASPVSGLGSKMGLDATNKWPG ETQREWGRPIKKDPDVAHIDA
24375	54743	A	24513	576	878	NLGSVWHYFRRSPEATHHDA ANLERSPAA*RLSGARYRILAV *ADQSQTGSGDGSPDLQTGRV GDEARHRKRGLHVPQPRSEPPV GARGFPYRFATRWR
24376	54744	A	24514	2	878	
24377	54745	A	24515	1	735	
24378	54746	A	24516	1	1992	
24379	54747	A	24517	721	1239	

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24380	54748	A	24518	1	1954	RQLNGVQLAFRESFHTVTRVTE QHAAGAVAIHQHRNQLLTGAL GIFAVAVCCLQQRLDILLADHL AEHVQFVIAQFVTCQQHNGV RNRTIIFLLFNLKRKIVETVRVQ QTQTGEVAFHPQLFRGRVVYG PDLNARRGNGVINCSTLED PQF GLILFVYTIGIQVGPFFASLRV SGLRLNLFAVLIVHGGGLVTAIL HKLFDIPLPVVLGIFSGAVTNT ALGAGQQILRDLGTPMEMVDQ MGMSYAMAYPFGICGILFTMW MLRVIFRVNVETEAQQHESSRT NGGALIKTINIRVENPNLHDLAI KDVPIIENGDKIICSRLKREETLK VPSPTIIQLGDLHLDSRGSPL DTQDIDLQINSSVEKQFGDAIRT TILDVLARYNVRGVQLNVDDK GALDCILRARLEALLARASGLP MISASLQQRKTRTRRSMLFVPG ANAAMVNNSFIYPADALMFDL EDSVALREKDTARRMVYHALQ HPLYRDIETIVRVNALDSEWGV NDLEAVVRGGADVRLTKTDT AQDVL DIEK\ EILRIEKACGREP GSTGLLAAIESPLGITRAVEIAH ASERLIGIALGAEDYVRNL RTE RSPEGTELLSARCPWQAARSA GIQAFDTVYSDANNEAGFL/QE
24381	54749	A	24519	5121	5492	
24382	54750	A	24520	2520	3525	
24383	54751	A	24521	1	1263	MAINSPLNIAAQPGKTRLRKSL KLWQVVMGLAYLTPMTVFD TFGIVSGISDGHVPASYLLALAG VLFTAISYGKLVRFPEAGSAY TYAQKSINPHVGF MVGWSSLL DCLLAVVIIAIIYVGFSLAGFHV YIGMLFVPGANAAMVSN SFIYP ADALMFDLED SVALREKDTAR RMVYHALQHPLYRDIETIVRVN ALDSEWGVNDLEAVVRGGAD VVRLPKTDTAQDVL DIEKEILRI EKACGREPGSTGLLAAIESPLGI TRAVEIAHASERLIGIALGAEDY VRNLRTERSPEGTELLFARCSIL QAARSAGIQAFDTVYSDANNE AGFLQEAAHIKQLGFDGKSLIN PRQIDLLHNL YAPTQKEVDHAR RVVEAAEAAAAREGLGVVSLN GKMVDGPVIDRARL VLSRAELS
24384	54752	B	24522	62	405	

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24385	54753	A	24523	891	3240	RYRKSPGSWR/CMSCILTSWITT MFPI*RLGQWC*NPCVTMAL/L APIDVHLMVKPVDRIVPDFAAA GASITFHPEASEHVDRTLQLIK ENGCKAGLVFNPATPLSYLDY VMDKLDVILLMSVNPFGGGQS FIPQTLDKLREVRRRIDESGFDI RLEVDGGVKVNNGEIAAAGA DMFVAGSAIFDQPDYKKVIDE MRSELAKFEDIRGVAFDLDGTL VDSAPGLAAAVDMALYALELP VAGEERVITWINGADVLMER ALTWARQERATQRKTMGKPPV DDDIPAEQVRILRKLFDRIYYG EVAEEGTFLFPHVADTLGALQA KGLPLGLVTNKPTPFVAPLLEA LDIAKYFSVVIGGDDVQNKKPH PDPLLLVAERMGIAPQQMLFVG DSRNDIQAACAAGLDAQARRK NAGYYYYLRLAKRQMRAGVA EALRDDLLAAKLNKLVNAGD YKFKQIASEKLLIVVTSTQGE PPEEVALHKFLFSKKAPKLEN TAFVAVSLGDSSYEFFCQSGKD FDSKLAELGGERLLDRVDA EYQAAASEWRARVVDALKSRA PVAAPSQSVATGAVNEIHTSPY SKDAPLVAWRLPNVEGRARAG GASSFLADRVEEEGEVRFIEH NDNFRLPANPETPVIMIGPGTGI APFRAFMQQRAADEAPGKNWL FFGNPHFTEDFLYQVEWQRYV
24386	54754	A	24524	950	2124	MSLISSVIAATWLHVKSRYRLSC GFYACQSLVLVS/IFPTLSCLFA AEQLLIWSASAFITKVLLVPLIM TYAARNIPQNIPEKALFGPAMM ALLAALIVLLCAFVVQPVKLPM ATGLKPALAVALGHFLLGLLCI VSQRNLRQIFGYCLMENSHL VLALLAWRAPELVEIGIATDAIF AVIVMVLLARKIWRTHGTLDL TPLLFSLLCFACRKRRLSATRTV TVLHSLGITLLLILALWVWQTA ADAGEIFAAGLWLHIDGLGGLF LAILGVIGFLTGIYSIGYMRHEV AHGELSPVTLCDYYGFFHLFLF TMLLVVTSNNLIVMWAAIEAT TLSSAFLVGIYQQRSSLEAAWK YIICTVRVAFGLFGTVLVYANA ASVMPQAEMAIFWSE

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24387	54755	A	24525	1	757	RWRLPGVPPFNGFFSKFPLFAP GFALSVEYWILLPAMILLMIESV ASFAWFIRWFGRVVPGKPSEAV ADAAPLPGSMRLVLIVLIVMSLI SSVIAATWLHVKSRYRLSCGFYA CQSLVLVSIFATLSCLFAAEQLL IWSASAFITKVLLVPLIMTYAAR NIPQNIPEKALFGPAMMALLA ALIVLLCAFVVQPVKLPATGL KPAL/AGLATDAIFAVIVMVLL ARH\IWRTHGTLDVNNLHALK GIMSCSYSS
24388	54756	A	24526	249	3943	
24389	54757	A	24527	1	1278	
24390	54758	B	24528	48	144	
24391	54759	B	24529	27	239	
24392	54760	A	24530	1	551	
24393	54761	A	24531	3	258	MLFDEPTSALYPEMIN*VLDVM VELANEGMTMMVVTHEMGFA RKEANRVIFMDEGKIVEYSPKD AFFDDPKSDRAKDFLAKILH
24394	54762	A	24532	2	979	
24395	54763	A	24533	1	4116	
24396	54764	A	24534	1	1195	MLIAEGLMTAKNITVITNSLPA AFALSENKDITLVVCGGTVRHK TRSMHGSIAERSLQDINADLMF VGADGIDAVNGITTFNEGYSIS GAMVTAANKVIAVLDDSSKFNR RGFNQVLPKIDIIITDDAVSEV DKLALQKTRDTSLVYVLSLADF FRTASTIGERDGTQVEMILFAGF VYLVISLSASLLVLTDCSTEVK KGEVVVVCGPSGSGKSTLIKT NGLEPVQQGEITVDGIVVNDKK TDLAKLRSRVGMVFQHFELFPH LSIIENLTLAQVKVLKRDKAPA REKALKLLER/VSGFFAHANKF PAQLSGGQQQRVAIARALCMD PIAMLFDEPTSALDPEMINEVLD VMVELANEGMTMMVVTHEM GFARKVANRKHTRSTIALQSL ATCT
24397	54765	A	24535	383	962	TDNDRPGLGTDMMKASAIVTN VAVVLSGRYRRERASGEWAAL SFLRPHTLTVFVIPHIQWDDPQ MSRP\SGRHLCRCRTVQRKHAL QVVEKFRPFFPSDRYRYGAPGD YAQSFGGQIDDVVKAIQTPSKF RRFLRVSF*IRLPILHSGKSPLR RMPNLMRRHSHTARHYPALGT RGPQPTDRQERPAVASGQ

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24398	54766	A	24536	1477	2387	
24399	54767	A	24537	1	1560	
24400	54768	A	24538	305	718	
24401	54769	A	24539	1	2161	MNDVDRVGGKNASLGEMITNL SGMGVSVPNGFATTADAFNQF LDQSGVNQRIYELLDKTDIDDV TQLAKAGAQIRQWIIDTPFQPEL ENAIREAYAQLSADDENASFAV RSSATAEDMPDASFAACTLVPG QNLSTSNKDVIELPDNQYDI.DK MVNIYPVTPGLIDQLRAKPIMS QANPELEQQIANYEYRIGIGDV LMVTVWDHPELTTPAGQYRSA SDTGNWVNADGAIFYPYIGRLK VAGKTLTQVRNEITARLDSVIE SPQVDVSVAAFR\SQKAYV\TA EVSKSGQQPITNIPLTIMDAINA AGGLTADADWRNVVLTQNGV KTKVNLIALMQRGDLRQNKI.I. HPGDILFIPRNDLKV FVMGEV GKQSTLKMDRSGMTLAEAI.GN AEGMNQDVADATGIFVIRATQ NKQNGKIANIYQLNAKDASAM ILGTEFQLEPYDIVYVITAPLAR WNRVISLLKKLERLTSIAITLPGI IDTENGIVHRMPFYEDVKEMPL GEALEQHTGVPGEAKGLVGAP PGARDVIQVVSIPNVGRAVIPN GHLLPQGSSSLVEIAHTQGGPL MGKRCYCGNHGCLETIASVDSI LELAQLRLNQSMSSMLHGQPL TVDSLCAALRGDLLAKDIITG VGAHVGRILAIMVNLFPQKILI GSPLSKAADILFPVISDSIRQQA LPAYSQHISVESTQFSNQGTMA
24402	54770	C	24540	1	1389	
24403	54771	A	24541	405	576	CEMGAPPWPGCWLS\LFDVDG RFVLAWMLFQGSYLAGALGDQ PVHIHLGQLLALWRPL

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24404	54772	A	24542	1	1127	MARTLAHELIDFGEIKRGLLGKIGTEMSADIAKAFNLDVQRGAFVSEVLPGSGSAKAGVKAGDIITSLNGKPLNSFAELRSRIATTEPGTKVKLGLLRNGKPLEVEVTLDTSTSSSASAEMITPALEGATLSDGQLKDGGKGKIKIDEVVKGSPAAQAGLQKDDVIIGVNRDRVNSIAEMRKVLAAPAIHALQIFPVDHRGAIGGQTTDIPDPSPGINHDRCMKGLSFAGEMVTYTNHTAHRRAFTNQPRDFMSVAWLKGKIAILPSVGEVRSPVAGRIASLFATLHAIGIESDDGVEILIHVGIDTVKLDGQIFSAHVNGEAGLKRVVKKEHAD/VQRHAESV*RRGQAQGTDGIRRDNRVQPGCERCTHQLLR
24405	54773	A	24543	95	599	QIMRMLNGSSTPNTSLPTPQAFDRSLPINATSARPSSTSTRHSAESSISRDCVSNVS/HSGG*TGGIKG*CHAHPADLTACHEADSRGSPSHAVAAVALHVID/GWYLGDDQTAAAYATGSAVSCPSSGNQFSRPSAAGRFSAVSAPQGAQRHPGRARRRPRRRRTAGGCRR
24406	54774	A	24544	640	890	LANAQLGSNEISIFQCFAAIQRFIKLHRDASVINHPLAE/TRK*YPVSVYHLRHPPIIR*PAIRDNA**ILPVTGPGYSCSRHQ
24407	54775	A	24545	3	257	ETDIFICDSREFFHHFAKASVHI*PVVSIANFAIQSGKILALGAENIATTSDRRAQRQKAVCKAHDASVSFRTLVRPTNDPCP
24408	54776	A	24546	332	1047	RTRPYCPGMGNPMTGWMAAAVVTLMIRMCFSVYTMLSESCQRMVIVGYGRCFADRQNLMLVCLRSMPNVFTGSCARMRCCLSENLLYRHRNGHIQAEWP*KKAISDVKQYRTSCWERWNAASATIFR/LSPVEWLTDNGSCYRANETRQFARMLGLEPKNTAVRSPESNGIAESFVKTIKRDYISIMPKPDGLTAAKNLAEAFEHYNEWHPHSALGYRSPREYLRQRACNGLSDNRCLEI
24409	54777	A	24547	1200	1544	LTGVADGNVDKPCYKFARLWYWIYPAFPPIRRVKVAYREYRPPTTPRVQRDLTFCHRPAIPDRMHRYS*SSHRALPGCWSKVPAQKSSRTVSGTD*VDLLSPRAQRAPSPLQG

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24410	54778	A	24548	263	625	
24411	54779	A	24549	742	851	VSAQQRVILNKIAVLNRK*RYG CWRLWICPYISRHLLSLNPLQA RCRRYSRGER
24412	54780	A	24550	1	532	MKTLLIIDANLGTRLYGEDPAG AAARKAKLEIIDNPND AEMAIV LGDSIPNDSALNGKNVWLGDIS RAVAHPELFLSERKGHAKPYTA PVAATAPVGASGPKRVVAVTA CPTGVAHTFMALKPLKPKRKN VAGIPDTGQYCETVQTSCW/AA VETPLRQRSSVVSSGVADG*WF MLPG
24413	54781	B	24551	1	888	
24414	54782	A	24552	1	2283	
24415	54783	A	24553	992	1662	KKAISDGALTGSSSAVITERDC VSRSRWTAIVVRHCTGRSLPAA STVKQYRTSCWERWNAASATI FR/LSPVEWLTDNGSCYRANET RQFARMLGLEPKNTAVRSPESN GIAESFVKTIKRDYISIMPKPDG LTAACKNLAEAFEHYNEWHPHS ALGYRSPREYLRHGLVSFISSLQ KFINDFAFEDGLFSGYDAEKRQ YEKSSWNYQLDENG YAKRDET LTHPRC
24416	54784	A	24554	1	2262	
24417	54785	A	24555	158	410	
24418	54786	B	24556	1	2607	
24419	54787	A	24557	715	1016	KSAAVPRSGASSQSDSAHFAQP EYAAFSRFRPGSFRHPRAA*YF GRLNHHVRSERGINP*YHRFNL HWRYVADAISADGAFRTVSGG GGRRSGAGRVDWQ
24420	54788	A	24558	652	1214	RTDHCVSRSRWTAIVVRHCTG RSLPAASTVKQYRTSCWDRWN AASATIFR/LSPVEWLTDNGSCY RANETRQFARMLGLEPKNTAV RSPESNGIAESFVKTIKRDYISIM PKPDGLTAAACKNLAEAFEHYNE WHPPSALGYRSPREYLGQRACT GHAIGSGPSSAFFGAPVRRVSRT SVTAKACPRGLL
24421	54789	A	24559	647	1976	
24422	54790	A	24560	289	574	ETPASSPTLRISIPSISWMTRGSL RRVMLLCPPFSESGTVSEKAWP EWSSFSSPPSCRTSASSPPSHLR /NIDVSPKHVVVFATIPRNYTMSF LPR
24423	54791	A	24561	816	1375	

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24424	54792	A	24562	1	3993	MSQKLKVVTTIGGGSSYTPELLE GFIKRYHELPVSELWLVDVEGG KPKLDIIFDLCQRMIDNAGVPM KLYKTLDRREALKDADFVTTQ LRVGQLPARELDERIPLSHGYL GQETNGAGGLFKGLRTIPVIFDI VKDVEELCPNAWVINFTNPAG MVTEAVYRHTGFKRFIGVCNIS IGMKILKTRTLDTTGSTSTGDTL LTQSLLMELSALCRVEVEEGLA LVALIGNDLSKACGVGKEVFG VLEPFNIRMICYGA
24425	54793	A	24563	1136	3608	KKAISDGALTGSSSAVITERDC VSRSRWTAIVVRHCTGRSLPAA STVKQYRTSCWERWNAASATI FR/LSPVEWLTDNGSCYRANET RQFARMLGLEPKNTAVRSPESN GIAESFVKTIKRDYISIMPKPDG LTAACKNLAEAFEHYNEWIIPHS ALGYRSPREYLRQRACNGLSD NRCLEIYGQIQLGTGELNITTGV VVTARDTHIALNFQKRRTTGLA TQSRQRCQNRRRVMGKIVYRD AIRFTTQLQTATSINKRTQRVSG ICRRYTNMASRCNRHQAI VHIM FAYQRPFFHFAHFFAIQONFPFGS IGGQLFRLPVTLLTHQLLLAPA AHRHGLFQVDVIFRPDNTALPR NDTHQMVELFLDRFQVVKDIG VIELKVVEDQRTRAVMNKFA FVEKGAVILIRFDKKKDI FLQYR FHTRISTGHGVANNHQIRLRL LAGIVPLNQLNPLPLNSVPMINI MNGGENADNNVDIQEFMIQPV GAKTVKEAIRMGSEVFHHLAK VLKAKGMNTAVGDEGGYAPN LGSNAEALAVIAEAVKAAGYE LGKDITLAMDCAASEFYKDGK YVLAGEGNKAFTSEEFTHFLEE LTKQYPIVSIEDGLDESDWDGF AYQTKVLGDKIQLVGDDLFTV NTKILKEGIEKGIANSILIKFKAQ HAGLLHMYTCAMLGVGQCW RYCMSQAFKEDRFAQDQRVAV
24426	54794	B	24564	83	2851	
24427	54795	B	24565	1	1578	
24428	54796	A	24566	574	753	
24429	54797	A	24567	1	2112	
24430	54798	B	24568	27	969	
24431	54799	A	24569	1	1773	

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24432	54800	A	24570	822	984	PSALCGCHSL*CSNASARFFAA VNPSGAFGCRADHPDGELFLTGYVADGGYHS
24433	54801	A	24571	1	4287	
24434	54802	A	24572	1	2384	
24435	54803	A	24573	3	3682	ACSARPSEAELLELIDTLNADN TIDGILVQLPLPAGIDNVKVLER IHPDKDVDGFHPYNVGRLCQR APRLRPCTPRGIVTLLERYNIDT FGLNAVVGASNIVGRPMSMEL LLAGCTTTVTHRFTKNLRHHVE NADLLIVAVGKPGFIPGDWIK GAIVIDVGINRLENGKVVGDVV FEDAAKRASYITPVPGGVGPMT VATLIENTLQAMSNMATFSLGK HPHVELCDLLKLEGWSESGAQ AKIAIAEGQVKVD
24436	54804	A	24574	1	1382	MLRGVNVLADAVKVTGLPGK RNVVLDKSFAGAPTITKDGVSVA REIELEDKFENMGAQMVKEVA SKANDAAGDGTATVLAQAII TEGLKAVAAGMNPMDLKRA RSRKGYPARIRQELNQGKISR EATEKAMRECDIDWCA**RF*S DKHHHRT*RQ/PTRHRYPDES PGSHNHRSAHALSSAQGYILLP RAVLSGWRFENVHPTPGYPAG SGSVFVPPPMTSRRLPAPDNFA APHRYRVLKTGLLSPGCHVRN ADTL
24437	54805	A	24575	466	1215	
24438	54806	A	24576	1104	1923	LAIPMKDFITEAWLRANHTLSE GAEIHLPADSRLTPSARELLES HLRIKFIDEQGRLFVDDEQQQP QPVHGLTSSDEHPQACCELCRQ PVAKK\PTDLTHLSAEKMAKS DPRLGFRAVL DSTIALAVWLQI ELAEPWQPWLADIRSLGNIMR ADALGEPLGCQAIVGLSDEDLH RLSHQPLRYLDHDLVPEASHG RDAALLNLLRTKVRET\ETVAA Q\VFITRSFVLRPDILQALNRL SSTVYVMMILSVTKQPLTVKQI QQRLETQ
24439	54807	A	24577	243	644	HAGSVCPSLYRCQRTAKRSGFY LLLKRLWSFSGNI*IHSGQQNPG RNQQLGLPRSRKGESSRAHPSC QRRPVWPHPLAGSRPPRPWA ACARLGPIAPARQIPERWPGQV PVLADAHVLPCLAGSLRPALYD F

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24440	54808	A	24578	237	454	RSRLPEGVPVCWCNHSVR*RDC RFPVGKLRHLWL/LALPGVRLIF RASTKRITGYINARSASIASASA RNRLV
24441	54809	A	24579	377	1155	KAYSFATMKSLAISCRWQNA*S HVSTFVMVRW/LKGVQFRNHEI IGDIVPLAKRYAEEGADELVFY DITASDGRVYPTLITRLADRF VQCIVVGIDTWYDARNLKDISV VGLLGAQVPSVRAGMPQSRQ TEGAQGMVRNEEGSLRLSHH QACKATHTQQWTLVTAQSSY NLFPEQWVKLFWGIRQGDPL AFSQKLSRQTFQQQTQTPRPI VGQAPKDLQTGTGTPQTHAVH SGDHAAGEQSKCKAPIYPLT AQFSLETRSFVGSEWGYSTHG ELRRRDKGRRRFY
24442	54810	A	24580	1107	1458	RTFWWTTCNSLAPCAGGYPST GAALPVSRLPGRGLLSGWG EHNARYRAGTFLWALFCAA AYWRRCLWGQYGMWFLRIRRG TLGDGTIRRVFVGSWAAVVIV EIGVEHIGVFKA
24443	54811	A	24581	171	352	PPAPPAESDGLPAHTTRARTTA DDLNRKRRQHVGCV*YRTRGSP RPNRTWWRVCRYRSPHR
24444	54812	A	24582	5	226	
24445	54813	A	24583	476	1939	RPESQHNTAKPAMKVLEQARR FLGIRWLSAPASLAN/PVILLV GNILNIVLDVWLVMLHNMVQ GAALATVIAEYATLLIGLLMVR KILKLRGISGEMLKTAWRGNFR RLALNRDIMLRSLLLQLCFGAI TVLGARLGSIIHAVNAVLMTLL TFTAYALDGFAYAVEAHSGQA YGARDGSQLLDVWRAACRQSG IVALLFSVVYLLAGEHIIALLTS LTQIQQLADRYLIWQVILPVVG VWCYLLDGMFIGATRATERN SMAVAAAAGFALTLLTLPWLGN HALWLALTFLALRGLSLAAI WRRHWRNGRPGTGCLNTKGS QQQHRHDSTTQHIHLQLLVIRV KTTTNNNSQQTPQYPCQQYHT DSRQHRQQNRMVCQRIPHALPS PRFRQISRGSTAKVPCAKARAF LRVKSDPTLITRLADRFVQCIV VGIDTWYDAETGKYHVNQYTG DESRTVTQWETLDWVQEVQK RGAGEIVLAYVSE

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24446	54814	A	24584	1	50	
24447	54815	A	24585	354	456	HLFSEACCSPGVLRCLCRPF*SP GTDRNLVMHGH
24448	54816	A	24586	494	835	ITWLPGRPPFQGSSEQFCLAGVP GATGGSESVLHTRNSYKMLEV RREVAALISALKVSAKCRNCGS SHALTEP/ASSPCWRETSTRPTG APAPTIPPPAASPSGPMCVQPH GED
24449	54817	A	24587	3	726	
24450	54818	A	24588	1	1635	
24451	54819	A	24589	1614	2454	RTTHAPASTPNTGTMLCRPYPC CWRRKTPHIFRATPQWFVSMD QKGLRAQSLKEIKGVQWIPDW GQARIESMVANRPDWCISRQRT WGVPMSLFVHKDTEELHPRTL ELMEEVAKRVEVDGIQAWWD LDAKEILGDEADQYVKVPDTL DVWFDSGSTHSSVVDVRPEFA GHAADMYLEGSDQHRGWFM SLMISTAMKGKAPYRQVLTHG FTVDGQGRKMSKSIGNTVSPQD VMNKLGAIDLRLWVASNDYTG EIAGSDENLKRACHYNACISL ARRRH
24452	54820	A	24590	362	517	TKSLISSMSSISSPPVVLICRNSS PEV**RKI*LGTELEFVIMVIAVS AWP
24453	54821	A	24591	250	930	
24454	54822	A	24592	1388	1912	VCPAAMTGFAGSPFCTAVVTFP DITPLLWILMC*LAILMAESEPK AISPPTISVVP*YAAESLLRVRI VPSFVTSPLPLILCVIAQLRSVE MVSRLITEASPRFFCSLTLSA LPVSMNLNCPTRLLSPSNSTSVL AVALTIPFPLMLLRSSPVTFFSV NRPSWAIFPLPNP
24455	54823	B	24593	1	6018	
24456	54824	A	24594	510	1003	VALQADQKHKHERPLPPPIPTM FQLAQPGVQLHAKPVYQVP/V MMQATEPTGI*VRIPVLSISTNA PSITSIWPLFVRKISVLTLASVV AASHAASSPRQCAIRCKIWGRW AGSLRRDDGFGVRSRGSRYGA SVSISNFSAGINGKSSRSSSPRRS SQTQPVMPI

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24457	54825	A	24595	197	4314	RASTELSLRCCAPSLQ/ALLHFL YLACFTWMLLEGLHLFLTVRN LKVANYTSTGRFKKRFMYPGV YGIPAVIIA VSAIVGPQNYGTFT HCWLKLDKGFIWSFMGPVAVII LINLVFYFQVLWILRSKLSSLNK EVSTIQDTRVMTFKAISQLFILG CSWGLGFFMVVEEVGKTIGSIIA YSFTIINTLQGVLLFVVHCLLNR QINSLLLTWTLWILRQRLSSVN AEVSTLKDTRLTLTKAFAQLFIL GCSWVLGIF
24458	54826	A	24596	1409	1573	
24459	54827	A	24597	1283	1563	
24460	54828	A	24598	281	839	CVPTTDLVVQSQI*PRWRNWPR CSCSHVSMKAASSPERTFTYCS GIYWLISGSGIGVSVPLISIGES VINLAVRPVIAHAIRVAITTRQT TRVAVTVVVALPVFRAVEHHV FQHLTQTRTGFRWHQFFFNRRQ REQSFTQGEQQRWANFQNGKV VNHQLAQRRLRLIIGRVRFENQ RFVVFHDHLA
24461	54829	B	24599	1	5652	
24462	54830	A	24600	559	1665	RVERKATIEMKSQRTTSDSWLII LAKQTGIIRAACKGKKTFFILHD GPPYANGSIHIGHSVNKILKDII VKSKGLSGYDSPYVPGWDCHG LPIELKVEQEYGKPGKEFTAAE FRAKCREYAATQVDGQRKDFI RLGVLGDWSHPYLTMDFKTEA NIIRALGKIIIGNGHLHKGAKPV HWCVDCRSALAEAEVEYY\DK TSPSIDV/AHPFMGFDVPAILGD HVTLDAGTGAVHTAPGHGPDD YVIGQKYGLETANPVGPDGTY LPGTYPTLDGVNVFKANDIVVA LLQEKGALLHVEKMQHSYPCC WRHKTPIIFRATPQWFVSMDQK GCDIGFHASSNGKRRADDSTDN HVRRLCARQRGQPHPHQFQRT

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24463	54831	A	24601	I	1190	MTDFRESDTMSLFDKKHLVSP ADALPGRNTPMPVATLHAVNG HSMTNVPDGMELIAIFAMGCFW GVERLFWQLPGVYSTAAGYTG GYTPNPTYREVCSDTGHAEE VRIVYDPSVISYEQLLRKYRCV AVALLGYFKCKPILLNPSYKSM QDDLAFIARFHFKDLKFRFSL KADQKSRIYERVLSIAGVNSWK DKQHQPRLVEHLLVCAESWVA PRALFDAAIEYLAHQKIAIPAYL VAFLVLGPLVLSLIPSQMLPSLT WSSITYSIVVIVEAGYQYHSRLR RFGRVEVNEQIEYLIHNPIRTRA RAVNFVDNNRLQAPRILRQDS WWITRPLPGLTWAIGSPGILPQ VVK SARVMKQAVAYLEPFIEA SKEQGKTNGKMVIATVKGDVH DIGKNIVGVVLQCNNEIVDLG VMVPAEKILR*KLGGTPRTL*R SNRVPGPPEDRHSCFLGCV/YW FLVP*CCLSSLRRCRR*RGQAS RIQ*LLSSKLAISTIL/GLRRFGR VEVNEQIEYLIHNPIR/IARQGG QLC**QQSASGPTDITAGFMVD HQTFTGADVGDNRVARNPATG GQIGARHETGGGLPRTVY*SQQ RAGQNQRQDGDHRHREGRRPRH

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24464	54832	A	24602	1	1591	MGILVSPLLAPLIGGLLDTMWN WRACYLFLLVLCAGVTFSMAR WMPETRPVDAPRTRLLTSYKTL FGNSGFNCYLLMLIGGLAGIAA FEACSGVLMGAVLGLSSMTVSI LFILPIPAAFFGAWFAGRPNKRF STLMWQSVICLLAGLLMWIP DWFGVMNVWTLVPAALFFFG AGMLFPLATSGAMEPFPFLAGT AGALVGGQLQNIQSGVLASLSA MLPQTGGSLGLLMTLMGLLI VLCWLPLARGYRLSSWTSTTAS EDIDCEECDGEGNETHGLQLAV EPEGLQPNYMGRGKIRFRDTCL LFCTQSRGSQWGFARTELVALL PPFLSGAADYRAGLALWLARG ADCDVDERHRADRQSNLARSS GGFIALAAGAKSDRRRLRELNQS LQKELARNQHLEERLLETEESV RRDVARELHDDIGQTITAIRTQ AGIVQRLAADNASVKQSGQLIE QLSLGVYDAVRRLGRLRPRQ LDDLTLQAIRSLMREMELEGR GIVSHLEWQSMNQR*AKTSA* RCFVSARKG
24465	54833	A	24603	1	1752	
24466	54834	A	24604	1	699	
24467	54835	A	24605	965	5516	
24468	54836	A	24606	84	3760	
24469	54837	A	24607	27	278	

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24470	54838	A	24608	311	2529	REWGSTRRRCERRISLSRNIARW RTIWRITRPCRRCVFRFIASLRL LHLHLIMNDLPLEEYPCVRDLV PGRFLKFL/HRDPKGTTLVLASD LPGRIPVDPRSIHVMFLAVRWL QRQLAGQELLETRATRIINGER GSNVLGTIYEWPPRTSSALDTL LREIQNAREQHSRLDTLIRSYA AQDVKTGLNNRLFFDNQLATL LEDQEKVGTHGIVMMIRLPDFN MLSDTWGHVSQVEEQFFTLTNL LSTFMMRYPGALLARYHRSDF AALLPHRTLKEAESIAVFRALS RLPDLWHRSIGTLTEALPQTDK RQEQIAVALTSYSGLYGLGYGS KEIQLTYSGTAGDLISPLSAIH GRCILNTLVFIVKLRWMENTLH RFGTHHGCSAVRSSHLDGSPR RSSWHMARARNHIHVLEENMA LLMEQAIANEGLFYRLLYLQRS LTAASSLDDMLMRFHWARDL GLAELLVVLPEAKAVGSVAMS MLGSDADWGVVLFSTRDASHY QQGQGTQLLHEIALMLPELLER WIERGWEQQVWRYGFLRYVAF LTGWSAQNELKANPAKGVSA KAPRHLPKNIDVDDMNRLDID INDPLAVRDLMYGAGLRSELV GLDIKHLDESGEVWVMGKGS KERRLPIGRNAVAWIEHWLDL RDLFGSERERRQHAGTNVLQT ADQRASRARQEGERLHRAAGR
24471	54839	A	24609	1	1749	
24472	54840	A	24610	1	2911	MNIDAKILNKILANRIQQHIKKL IHNNQVSFIPGMQGWFNHKS KVIQHINRTKDKNYMIISIDAEK AFDKIQPFMLKTLKLVAGM MAVAAPDDPPPSVSSSKPSTV APPGRISPSGRALCTSLPSALSSS SKFSLLRIFQVPAKLGMVAVAA AAGVNAMLKRVAVAAASKPH VEIRQDGDQFYIKTSTTVRTTEI NFKVGEGFEEETVDGRKCRVR PQSHYSVPVSPLGAHGPLLLEE PVSPFAACGAPS
24473	54841	A	24611	249	609	QIEVCVRIKPKAGTVLAYS*RSR QERPPAPGMTSLSLAAVSSDNP VSGDEHILARASGRFGIGRVA QPKRIQRRSSTPRAATDLGNPG HRPCTVRKSALLVVSVCRRHSS RSLRFRSC

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24474	54842	A	24612	942	1121	
24475	54843	A	24613	1010	1658	EISSSKRSRTVCKRRAPMFVS DSTCHAASAMRLIPESVNSIFTPS VAISALYCTVIEAFGSVRIRSKS LVVSACSSTRIG\DDLA VPGSGQ TVSQSGTRQKR*TECGQF*PSR VWWKRCNLLPAAAGHAERLH EKHPDRKTRRVRLVWLAGPPT RLLGTMGAGTLVLGACCLPWP REGAHNVATAACGGWRARCD LRFRLSCKLGLSRQFFGWNA
24476	54844	A	24614	1	1995	
24477	54845	A	24615	1	2853	
24478	54846	A	24616	1	1755	
24479	54847	A	24617	2942	3454	SVPDWLMCTAFLSLSRINSPRL LKAELLTSSIPVLLPSLLLPRFQ VPSLFATAVPVSAAPLIAPSV*L LKTPPADII RPVTLPLLLNTPAFC TILLMVPVLFNLSAPAFMVIC AVISALLRIPPLTSTLFVITPAF LMTAPLSSFTKLLMMPPLVFSR RPLDTVI
24480	54848	A	24618	1	2959	MKRYRPREILPWKVPPGNYTPK IFKIKGTGHNPM SAIENFDAHTP MMQQYLRLKAQHPEILLFYRM GDFYELFYDDAKRASQLDISL TKRGASAGEPIPMAGIPYHAVE NYLAKLVNQGESVAICEQIGDP ATSKGCCRSNGNRNGGRKIVAVS LKKVSGAAKPCGHFRSTRYRV AYSTIINN KAGIWSAFEGVSAT RPNPTPRASPAVRTLSRGTPEPR KISTDADNLAQGSLKERLPAWL WGKKENSKWEVLD
24481	54849	A	24619	441	1425	
24482	54850	A	24620	1	2574	
24483	54851	B	24621	1	1725	
24484	54852	A	24622	160	390	
24485	54853	A	24623	892	1183	
24486	54854	A	24624	1	2493	
24487	54855	A	24625	435	829	ASDVLVSEGCR/YRGASALTST SVICINTDKALRKIIRLPLNGLR KPLNAMTLP LGITWPLCITTEKE DLSISDR LSTCIVKFSHPPEMS VRKFVPPAILLCSVCLRFSCPTR HQA KAPAKWILKSCSA WMR
24488	54856	A	24626	763	1863	
24489	54857	A	24627	1423	1712	

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24490	54858	A	24628	1	2792	MTYLSAQDHELIQVVQNGHLQ MCGKSETGNEASPVKCIVLQVL RGLQYLHRNFIIHSQEQTIPDPSI SDQQETPLLAGDMAQRGRGG FYYVTAYIYVDKKAPVHMRTA AQGLITLCCQGGFSGLLGYRLGG VMMEKMFAYQEPVNGLTFFNW SGMWTFGAVMIAHVLFFMIF RESNEITAIVMEDSMSSATT LTTPQEQVDSLIMQIAEENGLE VLDQLSQLPEGASAVGESSVRS QEDQLSRSFICLMAMM
24491	54859	C	24629	213	345	
24492	54860	A	24630	1	474	MHQTAKTPHTSYPNNYEEHN RRANRSKNYDRIRHTTII.LKRTN PAQTITNLLKSRFNRYNYVQPR SCRSIFIHIPGERDLNLCIAPNPP AIFPTSIGYLGPDNLNLPTYAPFI TTNLTGPAPTTTHPVGNLGTIG NPEPGGCILIVWCCVNWACL WDSVVAAPREPYPAGLLRHR RHYRHRREDLIAVPAARQTDE NRRPALCHEYAVGHRKIKTNV EHTEPYILPLITHSQPLNRGAFF CPGVRFLVVSVDLFEKRL**RR WRRSPAGI*GSRGAATTLSQRQ AQLTQHQTIRIPHPGSGLPVVP KFPTGCVVVGAGPVRFFVING
24493	54861	A	24631	1	924	
24494	54862	B	24632	177	468	
24495	54863	B	24633	592	883	

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24496	54864	A	24634	1	1926	MATAKANQEIQEWLGKYGTAR VKLNVDKDFSLKDSSLEMLYPI YDTPTNMLFTQGAIHRTDDRTQ SNIGFGWRHFSGNDWMAAVIT FIDHDLRSRSHTRIGVGAEYWRD YKLSANGYIRASGWKKSPDIE DYQERPANGWDIRAEGYLP PQLGASLMYEQYYGDEVGLFG KDKRQKDPHAISAEHSPEFRSE ALKLVNASVLLPQPVSACMN HNSTTGAVNSKISRLLNVNW RCLPRLHVSNASWQNGMKS SSKRPRHTSEAPEMKYVFIEKH QAEFSIKAMCRVLRVARSGWY TWCQRRTRINIAVRRADGSRT SFVYTSYLAKVNEEWKNNVGT GSTVKWPIGLGGKGNDGIAAF VQRLPGAIGYVEYAYAKQNNL AYTKLISA*NEVCLY*KTSG*V QHQS NVPR/RSGWPAAAGIRGV SGGQG*TLL*YAAQMAPELPSS TPATWRK*TKSGKTTLV/HGST VKWPIGLGGKGNDGIAAFVQR LPGAIGYVEYAYAKQNNLAYT KLISADGKPVSPTEENFANA GADWSKTFAQDLTNQKGEDA WPITSTTFILHKDQKKPEQGTE VLKFFDWAYKTGAKQANDLD YASLPDSVVEQVRAAWKTNIK DSSVNFDMANVFFRVTPGNFL VNREASHQRRVFAVRAGVDFI YRASSDGLRRCRDRRTRFKRIN
24497	54865	A	24635	1387	1639	ESKPLNLGRGSGFLLTRALSAQ PLWQSPDQHLTPQAGLSRL*A QRQA*QKTASRVV*PKPLWAL VKATSEDISVVL*ESACQC
24498	54866	A	24636	1570	2516	IEVAMSIVVKNNIHWVGQRDW EVRDFHGTEYKTLRGSSYNSYF IREEKNVLIDTVDHKFSREFVQ NLRNEIDLADIDYIVINHAEDH AGALTELMAQIPDTPITYCTANAI DSINGHHHPWFNFNVKTGD TLDIGNGKQLIFVETPMLHWP SMMTYLTGDAVLFNYDAFGQH YCDEHLFNDEVDQTELFECQ RYYANILTPFSRLVTPKITEILGF NLPVDMIATSHGVVWRDNPTQ IVELYLKWAADYQEDRITIFYD TMVNNTTPMMADAIAQGIA\ETG PRLAGENFNV\ARNDKHEDPDL LSFRSERGA

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24499	54867	A	24637	24	363	
24500	54868	A	24638	2	366	RATPRHIIVRFTKVEMKEKMLR AAREKGRVTLKGKPIRLTADLS AETLQARREW*QNLSAFACL*R ILFLLHL*SLVWLDKMCWVENS FL*EC*ILAPTLFWLVGFLPRDP LLV*WASL*G*PDLSLWLPLAF FPSFQLW*I*QLCVLELL
24501	54869	A	24639	232	292	
24502	54870	A	24640	4	911	
24503	54871	A	24641	2795	3226	SWWISFLMCCWIWFASILLRIFA SMFIKDIGLKFPFLVVSPLPGFI RMMLAS*NELGRIPSFSIGWNSF RRNGTSSSLYLW*NSAVNPSGP GLFLVGKLLVIASISEPVIGLFTD STSSWFSLGRVYVSRNLSISSRF SSLFA
24504	54872	A	24642	1	3285	
24505	54873	A	24643	1	4368	
24506	54874	A	24644	200	335	YALLNKDSSPWYPFSVPVLASN TRYLWPLSST**GSLSVWLSPD V
24507	54875	A	24645	174	263	
24508	54876	A	24646	1244	1354	

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24509	54877	A	24647	194	2481	GMFRMNLMEPLTQCINAGHEM TKAIAIAQFNDDSPARKITRR WRIGEAADLVGVSSQAIRDAEK AGRLPHPDMEIRGRVEQRVGY TIEQINHMRDVFGRRLRAEDV FPPVIGVAAHKGGVYKTSVSVH LAQDLALKGLRVLLVEGNPDQ GTASMYHGWVPDLHIHAEDTL LPFYLGEKDDVTYAIKPTCWPG LDIIPSCALHRIETELMGKFDE GKLPTDPLMLRLAIETVAIDY DVIVIDSAPNLGIGTINVVCAA DVLIVPTPAELFDYTSALQFFD MLRDLLKNVDLKGFEVDVRI TKYSNSNGSQSPWMEEQIRDA WGSVMVKNVVRETNEVGKAA PMVDSLIRVGVMMARGNAITLP VCGRDVKFTLEVLRGDSVEKTS RVWSGNERDQELLTEDALDDLI PSFLLTGQQTAFGRRVSGVIEI ADGSRRRKAAALTESDYRVI GELDDEQMAALSRLGNDYRPT SAYERGQRYASRLQNEFAGNIS ALADAENISRKIITRCINTAKLP KSVVALFSPGELSARSGDALQ KAFTDKEELLKQQASNLHEQK KAGVIFEAEVITLLTSVLKTSS ASRTSLSSRHQFAPGATVLYKG DKMVLNLDSPQSFSPGAGDHA NSPQSSSPSTGVHINSPQLSSLS AGVHTISPQSSNPVGVGTALSH DLVWVFTLTAHSRPVLVWVFT
24510	54878	A	24648	1361	1694	
24511	54879	A	24649	1	3852	MKLMETLNHCINAGHEMTKAV AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGRRLRAEDVFPPVI GVAAHKGGVYKTSVSVHRAQ DLALKGLRVLLVEGNAPQGTA SVYHGWVPDLHIHAEEAALLPF YLGEKDDVTYAIKPTCWPGLDI IPSCALPRIPELMGK/FDEGRS FMPGPP/HHHPLGRSSQ*QVSNS LDRAAKGN*KPLCHC

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24512	54880	A	24650	1	1720	MEKLLLENDLSKDVSRLETVF VPPEKHEKEIHALKSNIVELKKQ LSELKKKCGEDQEKIHALTSEN TNLKKMMSNQYVPVKTHEEV KMTLNDTLAKTNRELLDVKKK FEDINQEFVKIKDKNEILKRNLE NTQNQIKAHEYISLAEHEAKMSS LSQSMRKVQDSNAEILANYRK GQEEIVTLHAEIKAQKKELDTIQ ECIKIMKRAPVIPKHTLNTQPVE DTSLSSTPAAPMVDSLIARVGVM ARGNAITLPCGRDVKFTLEVL RGDSVEKTSRVWSGNERDQEL LTEDALDDLIPSFLTGGQTPAF GRRVSGVIEIADGSRRRKAAAL TESDYRVLVGELDDEQMAALS RLGNDYRPTSAYERGQRYATR PQNEFAGNISAMADAENISRKII TRCINTAKLPKSVVALFHPGE LSARSVIDSAPNLGIGTINVVCA ADVLIVPTPAELFDYTSALQFFD MLRDLLKNVDLKGFEVDVRILL TKYTNINASQSPWMREKFGMA WESMVLKNVVRETDEVGKGQI RMRADFV\QAIDQRSSTGAWRN ALSIWEPVCNEIFDRLIKPRSEIT
24513	54881	A	24651	1094	2271	APFHRPHTKQSLQEQTDDVVSIN EFLKQMAF*AQKLKE/WRTSAA SDITPAGFCSCRAIKDAEKPGRRL PHPD\MEFRDRVDQ\RVVSPFGQ II\HMRNVFGPRLPRAKDVFPV IGVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGN\DP\QGT ASMVSREGDPALHI\YQEAPFLP FYLGEKDDVTYAIKPTCCPGLN IIPSCALPRIETELMGKFDEGK LPTDPHMLRLAIETVAHAHDY DVVIDSAPNLGIGTINVVCAAD VLIVLTPVEIMFDYTSARQFFD MLRDLLKNA\DLKGFEPEVRIL LTKYSNSNGSQF\WMEEQIRD AWGSMVLKNVVRETGEVVGKG QIRMRT\VFQAIQDRSSTDTS STPAAPMVDSLIARVGVMASR
24514	54882	A	24652	1	1415	

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24515	54883	A	24653	3008	8165	ILIPFFIGLQNRFTQFRLSETKEIT NPYAMRLYESLFQSSKTNGSGI VSLKIDWIIERYQLPQSYQRMP DFRRRFLQVCVNEINSRTPMRL SYIEKKKGRQTTHIAIRDAEKA GRLPHPDMEIRGRVEQRVGYTI EQINHMRDVFGTRLRRAEDVFP PVIGVAAHKGGVYKTSVSVHL AQDLALKGLRVLLVEGNDPQG TASMYHEWVQNLHIHAEDTLL PFYLGKKDDVTYAIKPTCWPG DIIPSCALHRI
24516	54884	A	24654	1	848	
24517	54885	A	24655	2354	3640	NVICNQELVYSSRHQFAPGATV LYKGDKMVLNLDERSVPTEYR YGVFLNVLLPATKYFQLHDPSL RNMELNYSASEDLVLKGLRV LLVEGNDPQGTASMYHGWVP DLHIHAEDTLLPFYLGEKDDVT YAIKPTCWPGDIIPSCALHRI ETHLMGKFDEGKLPTDPHML RLAIETVAHDYDVVIDSAPNL GIGTINVCAADVLIPTPVEL FDYASARQFFHMLRPLLKNVD LKGFEVDVRIILLTKYSNSNGSQ SPWMEEQIRDAWGSMVLKNV KEFAGNISALADAENISRKIITR CINTAKLPKSVVVFLLTPVNYL PGDALQKAFTDKEELLKQQAS NLHEQKKAGVIFEAEVITLLTS VLKTSSASRTSLSSRHQFAPGA TVLYKGDKMVLNLDERSVPTE CIEKIEAILKELEKPAP
24518	54886	A	24656	667	870	QIVSSEPKYTDFLSKIPFEQVR DVQRNGDHTEGAVR*LSIAFFS ALLKLLAFFTEEVRAAAVVRV
24519	54887	B	24657	1	1086	
24520	54888	A	24658	2	250	WRTKSLDIPPLIYPNGIVKNILR HLSQLLNVPITRPF SWILRP*RP *RKISTSFIRPLFTFLPA**MLIRS SVWQ*KTVSW

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24521	54889	A	24659	1	1608	MAETAVINHKKRKNSPRIVQSN DLTEAAYSLSRDQKRMLYLFV DQIRKSDGTLLYMTYRKPDGS GIVSLKIDWIERYQLPQSYQRM PDFRRRFLQCINAGHEMTKAIAI AQFNDDSPARKITRRWRIGEA ADLLGVSSQAIRDAEKAGPLPH PDMENRGRVEQRGGYTIEPNN HMRDGVGTRWRAEDVFAPPLI GVAGHKGGRIYKTSVSVHLAQ DLALKGLRVLLVEGNDPQGT SMYHGWVWVPLDHIHAEDTLLPF YLGEKDDVTYAIKPTCWPGLDI IPSCALHRIETELMGKFDEGKL PTDPHMLRLAIETVAHDYDVI VIDSAPNLGIGTINVVCAADVLI VPTPAELFDYTSALQFFDMLPD LVKNRDLKGVEPDMRKQRHR KAKDLLAQDPTAMTTDELLKE ATRCPICTAYLEKPMSECECV FCLSCTNSLQKEPQGEGVLCPF CLEASQKNNIRLNRQLGRLVSH IKELEPKLKKILKMNFKDAEVP RFSSPKPCSSFFSTCYLSKNCSN HPCYSPYPGSGWG
24522	54890	A	24660	1	1128	
24523	54891	A	24661	1035	1208	SLIDRIEALGIFRFAAV*GSAAY HGV*YERRRTFLCMLFGYFLSR RLESLLLPEVQS
24524	54892	A	24662	1	1316	MEIRGRVEQRVGYTIEQINHMR DVFGTRLRRAEDVFPPVIGVAA HKGGVYKTSVSVHLAQDLALK GLRVLLVEGNDPQGTASMYHG WVWVPLDHIHAEDTLLPFYLGEKD DVTYAIKPTCWPGLDIIPSCAL HRIETELMGKFDEGKLPTDPHL MLRLAIETVAHDYDVIVIDSAP NLGIGTINVALQNFQRYTGIQH VHRIGMAERMWCDNRNRHT VSSSGGNRLPNPGPDRSDLALK GLRVLLVEGNDPQGTASMYHG WVWVPLDHIHAEDTLLPFYLGEKD DVTYAIKPTCWPGLDIIPSCAL HRIETELMGKFDEGKLPTDPHL MLRLAIETVAHDYDVIVIDSAP NLVFRICFVIWAQERIDIKGFEP DVRILLTKYSNSNGSQSPWME QIRHAWGSMVLKN/VVRETDE VGKDTGVRKSIWCHNRNWE

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24525	54893	A	24663	504	1254	SYVKYFPHQPAQKYFQQIHSAI GLHNADHVHKHLLGDNRYPIW IMQPSAHHPARQPEHDIAFGKC SSSVSVHLAQDLALKGLRVLLV EGNDPQGTASMYHGWWPDLHI HAEDTLLPFYDPHMLRLAIET VAHDYDVIVIDSAPNLGIGTINV VCAADVLIPTPAELFDYTSAL QFFDMLRDLLKNVDLKGFEPA VRILVVRVSQRMVAVAGCIIAFID KLLNVLICFPFSVKNRFVIFHSV DFECVIRF
24526	54894	A	24664	1	3216	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPG FGDFADFGTTIKQDFRLLGQTS VDRLLQLSQQAVKGNQLLPV SLVKRKTTLAPNTQTASPRALA DSLMQLARQVSRL/VKRAPTC WPGLDIIPSCALALPRIETELMGK FDEGKLPTDPHMLRLAIETVA HDYDVIVIDSAPNLG
24527	54895	A	24665	1	419	MSSSDKDFDFSANMVNFFAP VFPMGKYTTQADKVLPLAIQE HDGICEIHVAKYAEIFGLTSAEA SKDIRQALKSFAGKEVVFYRPE/ VGCRR*KRL*IFSLVYQTCAQSI QRALQCTYQPISHSLLYRVTEP VYAVSA
24528	54896	A	24666	1	2598	

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24529	54897	A	24667	1	2027	MRGHREKAAACKPRTRASEGT TPASTFILDFQPPNCNYTSGDNH TLRDPHYVEDKGHKYLVFEAN TGTENGYQGEESLFNKAYYGG GTNFFRKESQKLQQSACKRDA ELANGALGHIENNDYTLKKVM KPLITSNTVTDEIERANVFKMN GKWYLF TDSRGSKMTIDGINSN DIYMLGYVSNSLTGPYKPLNKT GLVLQMGLDPNDVTFTYSHFA VPQAKGILCEEDNYTAGDNHM MRAPHCEEDRAHKFVVFDA GTESGHQGEESLFNRACGGGGT FFFSKESQKLQQSACKRDCINA GHEMTKAIAIAQFNDDSPARK ITRRWRIGEAADLVGVSSQAIR DAEKAGRLPHPDMEIRGRVEQ RVGYTIEQINHMRDVFGTRLKR AEDVFPPVIGVAAHKGGVYKT SVSVHLAQDLALKGSLLLPKND FLFKLGLEGHPLGKIHPPTGA DVARGSSGLPKSELFLPERNTQ ELQQDSEEGPLALQVLQSNLM DFADFGTTIKQDFRLLGQTSVD RLLQLSQGQAVKGNQLLPVSL VKRKTTLAPNTQTASPRALADS LMQLARQVSRLESGQNNDGIC EIHVAKYVEIFGLTSAEASKDIR QALKSFAGKLVVFYRPE/VGCR R*KRL*IFSLVYQTCAQSIQRAL QCTYQPISHSLLYRVTEPVYAV
24530	54898	A	24668	1	989	PWISAPVPVDVVEGAMDSVTV LSFGGLMLYFCAGWPPARRWC FPESISCGSMERDQWWGLQVA KRAGLAGGQSGRTVLRERVRIE IASTHIALAARHSDWRCCRNGR YPARGPAALQNFQRYTGIQHV HRIGMAERMWCDNRNRHTVS SSGGNRLPNPGPDRSCDNLKTC HTSHGSVMAETAVINHKKRKN SPRIVQSNDLTEAAYSLSRDQK RMLYLFVDQIRKSDGTLQEHD GICEIHVAKYAEIFGLTSAEASK DIRQALKSFAGKEVVVFYRPE/V GCCRR*KRL*IFSLVYQTCAQSIQ RALQCTYQPISHSLLYRVTEPV

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24531	54899	A	24669	350	1203	LLTARLTWVSARLMSDFADFG TTIKQDFRLLGQTSVDRLLQLS QQQAVKGNQLLPVSLVKRKTT LAPNTQTASPRALADSLMQLA RQD/LALKGLRVLLVEGNDPQG TASMYHGWVPDLHIHAEDTLL PFYLGEKDDVTYAIAKPTCWPG DIIPSCALHRIETELMGKFDEG KLPTDPHMLRLAIETVAHDYD VIVIDSAPNLGIGTINVVCAADV LIVPTPAELFDYTSALQFFDMLR DLLKNVDLKGFEVDVIRLLTKY SNSNGSQSPWMEEQIRDAEGSR
24532	54900	A	24670	1	936	
24533	54901	A	24671	1070	1324	LGTPGGCSRMTCAVPLIPNDD TPTRRTRPLLGGVFSVRS*TVP ADQSTSGDGDSTCNVRGSCPCR IAITILITPATPAAACV
24534	54902	A	24672	1	1212	
24535	54903	A	24673	2373	3381	FKRGQYGQLLRPRFHHGQILYA RRQGADAAGDSGIW/HGIWTEP MTM*KKDER*PSPTQAS*DNW KSIRGSCWQALSITRN/CKNSPRI VQSNDLTEAAYSLSRDQKRML YLFVDQIRKSDGTLQEHGICEI HVAKYAEIFGLTSAEASKDIRQ ALKSFAGKEVVFYRPEEDAGD EKGYESFPWFIKRAHSPSRGLY SVHINPYLIPFFIGLQNRFTQFRL SETKEITNPYAMRLYESLCQYR KPDGSGIVSLKIDWIIERYQLPQ SYQRMPDFRRRFLQHIFVLRER PETVLIDLIQRTKDAVRELDNL QYRKMKKLLFQEAHNGPAVEA QEEEEDD
24536	54904	A	24674	31	811	RRGLLGTRLRLSEDVFPVVLGV AAHKGGVDKTSVSVHLAQDLA LKGLRVLLVEGNDPQGTASMY HGWVPELHIHAEDTLLPFYLGE KDDVTYAIAKPTCWPGLDIIPSC ALHRIETELMGKFDEGKLPTDP HMLRLAIETVAHDYDVIVIDS APNLGIGTINVVCAADVIVPTP AELFDYTSALQFFDMLRDLLKN VDLKGFEVDVIRLLTKYSNSNG SQSPWMEEQIRDAWGSMLVK NVVAFQNLEFLFILLRIWL
24537	54905	A	24675	1004	1105	

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24538	54906	A	24676	1	1139	MEKKITGYTTVDISQWHRKEHF EAFQSVAQCTYNQTVQLDIKK KLKTVKKNKHKFYPAFIHILAR LMNAHPEFRMAMKDVAEYNG YHVVFALAGSPKDADDTSIYM FYQKVGDNSIDSWKNAGR VFK DSDKFDANDPILKDQTQEWSGS ATFTSDGKIRLFYTDYSGKHYG KQSLTTAQVNVSKSDDTLKING VEDHKTIFDGDGKTYQNVQQFI DEGNYTSGDNHTLRDPHYVED KGHKYLVFEANTGTENGYQGE ESLFNKAYYGGGTASSIRKSDG TLQEHGDCICEIHVAKYAEIFGLT SAEASKDIRQALKSFAGKEVVF YRPE/VGCRR*KRL*IFSLVYQT CAQSIQRALQCTYQPISHSLLYR VTEPVYAVSA
24539	54907	A	24677	1	930	
24540	54908	A	24678	1	2486	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKET GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DKWPLANADGTVAEYNGYNV VDKFDANDPILKDQTQEWSGS ATFTCDGKIRLFYTDYSGKHYG KQSLTTAQVNVLSDDTLKING VEDHKAIFDGDGKTYQNVQQ IDEGNYTSGDNHTLRDPHYVED KGHKYLVFEANTGTENGYQGE ESLFNKAYYGGGTNFFRKESQK LQQSAKKRDAELANGALGIIEL NNDYTLKKVMKPLITSNTVTDE IERANVFKMNGKWYLFDTDSRG SKMTIDGINSNDIYMLGYVSNS LTGPYKPLNKTGLVLQMGLDP NDVTFTYSHFAVPQAKGNV ITSYMTNRGFFEDKKATFAPSF LMNIKGKNTSVVKN SILEQQQL TWLQVAKRAGLGGGQSGRTVL RERLPNYKNFKGTIQELGQNQY AVSGEIFVVDNRNTEITELPVRT WTQVYKEQVLEPMLNGTDKTP ALISDYKEYHTD TTVKFVVKM TEEKLAQAEAAAGLHKVFKLQT TLTCNSMVLFDHMGCLKKYET VQDILKEFFDLRLSYGLRKEW LVGMLGAESTKLNNQARFILEK IQGKITIENRSKDLIQMLVQRG YESDPVKA WKEAQEKCDNLKT CHTSHGSVMAETA VINHKRRK

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24541	54909	A	24679	5	253	SAPKVWRGLRQQGAGISVLP*V CAQP/VQVAKAPELILNFDLPK KYFDKL/R/DTHFFSPHTGKFPT VKILMAPFANSASRGVALC
24542	54910	A	24680	334	842	PDKEGNEIWVDMYTVKPSGWT VRTFDKPRKRFAFFIAGILFRAI KNHFLPRETLQCLPYILTGFRRG QSEYFSIFSNMDLADTMFLVG GHKIFVFHCHTELRSIHQAGK NVNKGRIKLVLIFLYGL*/QRP* YPAERSGYRYIEQLTEMPQNVL YDAIGIYQRWYIQ
24543	54911	A	24681	676	1169	DNLKTCHTSHGSVMAETAVIN HKKRKNSPRIVQSNDLTEAAYS LSRDQKRMLYLFVDQIRKSDGT LQEHDGICEIHVAKYAEIFGLTS AEASKDIRQALKSFAGKEVVFY RPE/VGCRR*KRL*IFSLVYQTC AQSIQRALQCTYQPISHSLLYRV TEPVYAVSA
24544	54912	A	24682	1	783	
24545	54913	A	24683	1	1884	
24546	54914	A	24684	1	1131	
24547	54915	A	24685	1	2856	
24548	54916	A	24686	528	725	
24549	54917	A	24687	1	898	
24550	54918	A	24688	1879	2343	
24551	54919	A	24689	1	1254	
24552	54920	A	24690	1	1113	
24553	54921	B	24691	1	1156	
24554	54922	B	24692	1	1980	
24555	54923	B	24693	1	1932	
24556	54924	A	24694	1	663	
24557	54925	A	24695	1123	1764	
24558	54926	A	24696	2	1772	
24559	54927	A	24697	1	1040	MELKTKARELREECRSLRRCN QLEERSVAMEDEMNMKREG KFREKRIKRNEQSLQEIWVYK RPNLRLIGVPESDVENGTKLEN TLQDIIQENFPNLRQANVQIQE IQRTPQRYSSGRETPRHIIVRFT KVEMKEKMLRAAERKCDNLK TCHTSHGSVMAETAVINHKKR KNSPRIVQSNDLTEAAYSLSRD QKRMLYLFVDQIRKSDGTLQE HDGICEIHVAKYAEIFGLTSAEA SKDIRQALKSFAGKEVVFYRPE EDAGDEKSYEQPSKDIRQALKS FAGKEVVFYRPE/VGCRR*KRL *IFSLVYQTCAQSIQRALQCTYQ PISHSLLYRVTEPVYAVSA

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24560	54928	A	24698	1683	4289	RVFKDSDKFDANDPILKDQTQE WSGSATFTSDGKIRLFYTDYSG KHYGKQSLTTAQVNVSKSDDT L KINGVEDHKTIFDGDGKTYQN VQQFIDEGNYTSGDNHTLRDPH YVEDKGHKYLVFEANTGTENG YQGEESLFNKAYYGGGTNFFR KESQKLQOSAKKRDAELANGA LGIIELNNDYTLKKVMKPLITSN TVTDEIERANVFKMNGKWHSK ILVSGTHRARTEVEVTDPIHQO RMGCCFTVGAGEICEKPTGCF TLPNCNCQWTGSAILDRKSHS HPHSPASGSWVKVVTGSYQLT HSPGIGLRDFADFGTPHQTGFSP AGANQRGPLVATLSGPGGEGQ SAVARLTGEKKNHPGAQYANR LSPRVGRFINAAGTTGFTGKR AVSATQLMHFKILVSRAIRART ELEVTDPGSSAENGLLPVVLIL LRKARKTLMPPHSTCFIKRSAP TQSTAGKTRPRVLKDSKFD NDPILKDQTQEWSGSAPFTSDG KIRLFYTDYSGKHYGKQSLTTA QVNVSKSDDTLKINGVEDHKT IFDGDGKTYQNVQQFIDEGNYT SGDNHTLRDPHYVEDKGHKYL VFEANTGTENGYQGEESLFNKS VLRRRHELLPDFADFGPTIKQD FRLLGQTSVDRLLQLSQGQAV KGNQLLPVSLVKRKTTLPNTQ TASPRALADSLMQLARQVSRIE
24561	54929	B	24699	1	2034	
24562	54930	A	24700	1	1038	
24563	54931	A	24701	1	1149	
24564	54932	A	24702	2	823	WPLQNADGTVAEYNGYHVVF ALAGSPKDADDTSIYMFYQKV GDNSIDSWKNAGR VFKDSDKF DANDPILKDQTQEWSGSATFTS DGKIRLFYTDYSGKHYGKQSLT TAQCDNLKTCHTSHGSVMAET AVINHKKRKNSPRIVQSNDLTE AAYSLSRDQKRMLYLFVDQIR KSDGTLQEHDGICEIHVAKYAE IFGLTSAEASKDIRQALKSFAGK EVVFYRPEEDAGDEK/ML*IFS VYQTCAQSIQRALQCTYQPISH SLLYRVTEPGYAVSA
24565	54933	B	24703	1	1206	
24566	54934	A	24704	2	1037	
24567	54935	B	24705	1	1389	

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24568	54936	A	24706	1	602	MGTGDFICISMTGGAPWGFRLQ GGKEQKQPLQVAKWANLKPGP PSHGVSMAETA VINHKRKNSP RIVQSN DLTEAA YSLSRDQKRM LYLFVDQIRKSDGTLQEHDGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVV FYRPE/VGCR R*KRL*IFSLVYQTCAQSIQRAL QCTYQPISHSLLYRVTEPVYAV
24569	54937	A	24707	1	774	
24570	54938	A	24708	1479	1947	
24571	54939	A	24709	1	696	
24572	54940	A	24710	1	1773	
24573	54941	A	24711	1	1509	
24574	54942	A	24712	1	891	
24575	54943	A	24713	156	242	VAGRGIGYRLSPNKGL*TWSAL CKPIAE
24576	54944	A	24714	1441	1866	
24577	54945	A	24715	1	1098	
24578	54946	A	24716	1	1989	
24579	54947	B	24717	126	848	
24580	54948	B	24718	58	688	
24581	54949	A	24719	1	542	
24582	54950	A	24720	1	675	
24583	54951	A	24721	1	1209	MKMPEKHDLLAAILAAKEQGI GAILAFAMAYLRGRYNGVLEA RSLKSRCQQSHALAEGRGGPP VTGRFKSTFTADSWNRYSLPSL TGGGNILHSRTHRRTVSRL LGR RWQELLRDVFGTRLRRAEDVF PPVIGVAAHKGGVYKTSVSVH LAQDLALKGLRVLLVEGNDPQ GTASMYHGWVPDLHIHAEDTL LPFYLGEKDDVTYAIKPTCWPA LDIIPSCLALHRIETELMGKFDE GKLPTDPHMLRLAIETVAHDY DVIVIDSAPNLGIGTINVVCAAD VLIVPTPAELFDYTSALQFFDM LRDLLKNVDLKGFE PDVRILLT/ KYSNSNGSQSPWMEEQIRDAW GSMGLKNV/VRETDEIGKGQIR MRTVFETAMDKRLLTGAWEK AFFFLEPGFEEKSNR

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24584	54952	A	24722	1	743	MIGMELPGLEGTELEGCHEREV VYDRVRVFEKRGGEARHVEARS PGGGSEKRGWGGARHQRMCR KGADNGGAGRARRVARLRQL ASRAIGRRKGAVLYQTPVINHK KRKNSPRIVQSNDLTEAAYSLS RDQKRMLYLFVDQIRKSDGTL QEHDGICEIHVAKYAEIFGLTL WREASKDIRQALKSFAGKEVV FYRPE/VGCRR*KRL*IFSLVYQ TCAQSIQRALQCTYQPISHSLLY RVTEPVYAVSA
24585	54953	A	24723	1157	1471	
24586	54954	A	24724	1	824	MEENERDLEINMINMSKELKVE NIKKHIGMLEKDEIEIHVTKSILI EIEIPTQCLRNLTNLHLAASAGN HMSNTACWYGCEDFTSVSTFA HQQVGSWDAYEPAASLLLS NLKTCHTSHGSMVMAETAVINH KKRKNNSPRIVQSNDLTEAAYSL SRDQKRMLYLFVDQIRKSDGTL QEHDGICEIHVANYAEIYGLTS AEASKDIRQALKSFAGKEVV FYRPE/VGCRR*KRL*IFSLVYQTC AQSQRALQCTYQPISHSLLYRV TEPVYAVSA
24587	54955	A	24725	996	1169	SLIDRIEALGIFRFAAV*GSAAY HGV*YERRRTFLCMLFGYFLSR RLESLLLPEVQS

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24588	54956	A	24726	3	1743	DSPEARKITRRWRIGEAADLV GVSSQAIRDAEKAGRLPHPDME IRGRVEQRVGYTIEQINHM RDV FGTRLRRAEDVFPPVIGVAAHK GNDPQGTASMYHG WVPDI.HIH AEDTLLPFYLGEKDDVTYAIKP TCWPGLDIIPSCALHRIETELM GKFDEAQPNLGIGTINVVCAAD VLIVPTPAELFDYTSALQFFDM LRDLLKNVDLKGFE PDVRILIT KYSNSNGSQSPWMEEQIRDAW GSMVLKNVVRETDEVGKGQIR MRTVFEQAIDQRSSTDTSLS TP AAPMVDSLIARVGV MARGNAI TLPVCGRDVKFTLEVLRGDSVE KTSRVWSGNERDQELLTEDAL DDLIPSFLTGTQQT PAFGRRVSG VIEIADGSRRRKAAALTESDYR VLVGELDDEQMAALSRLGNDY RPTSAYERGQRYASRLQNEFAG KYFLRWLMRKIFHIITRCINTAK LPKSVVALF SHPGELSARSGDA LQKAFTDKEELLKQQASNLHE QKKAGVIFEAEVITLLTSVLKT SSASRTSLSSRHQFAPGATVLY KGDKMVLNLD RSRVPTECIEKI EAILKELEKPAP
24589	54957	A	24727	1	1623	
24590	54958	A	24728	1	1863	
24591	54959	A	24729	1	2622	
24592	54960	A	24730	1	1338	

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24593	54961	A	24731	1	1823	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKET GVSHITRHDMLQIPKQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDNSIDSWKNAGR VFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGKHYGKQS LTTAQVNVSKSDDTLKINGVED HKTIFDGDGKTYQNVQQFIDEG NYTSGDNHTLRDPHYVEDKGH KYLVEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIIELNND YTLKKVMKPLITSNTVFIRDKL MERRNRRRTGRTEKARIWEVTD RTVRTWIGEAVAAAAADGVTF SVPVTPHTFRHSYAMHMLYAG IPLKVLQSLMGHKSISSTEYTK VFALDVAARHRCNLKTCHTS HGSVMAETAVINHKKRKNSPRI VQSNDLTEAAYSLSRDQKRML YLFVDQIRKSDGTLQEHGICEI HVAKYAEIFGLTSAEASKDIRQ ALKSFAGKEVVFYRPE/VGCRR *KRL*IFSLVYQTCAQSIQRALQ CTYQPISHSLLYRVTEPVYAVS
24594	54962	A	24732	1476	2221	

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24595	54963	A	24733	1	815	MRVGRKAVGAIWWSSKQELFQ QLFLRTELEDIGPGIVKRELGRE GSKDTGSSDDWEQLPDWKTKR VGNERDQELLIEDALDDLIPSFL LTGQQTPAFGRRVSGVIEIADG SRRRKAAAALTESDYRVLVGEL DDEQMAALSRLGNDYRPTSAY ERGQRYASRLQNEFAGNISALA DAENISRKIITRCINTAKLPKSV VALFSHPGELSARSGDALQKAF TDKEELLKQQASNLHEQKKAG VIFEAEVITLLTSVLKTVQSKN LSFTWICHAETAVINHKKRKN SPRIVQSNDLTEAAYSLSRDQK RMLYLFVDQIRKSDGTLQEHD GICEIHVAKYAEIFGLTSAEASK DIRQALKSFAGKEVVFYRPEED AGDEKGYESFPWFIKHWTISP QTSAYERGQRYASRCKNEFAG NISALADAENISRKIITRCINTAK LPKSVVALFSHPGELSARSGDA LQKAFTDKEELLKQQASNLHE QKKAGVIFEAEVITLLTSVLKT SSASRTSLSSRHQFAPGATVLY KGDKMVLNLD RSRVPTECKRK LRPF*SGQRTDTAYVFD PGRDY

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24596	54964	A	24734	2	1249	DFADFGTTIKQDFRLLGQTSVD RLLQLSQGQAVKGNQLLPVSL VKRKTTLAPNTQTASPRALADS LMQLARQVSRLESGQLAISGRI LFLPMLNSINKLAAPSQPCTEPF FRRDPTLHPKSEVRLPPKVTIT VISNPILITPQEKSV AQCTYNQT VQLDITAFLLKTVKKNKHKFYPA FIHILARLMNAHPEFRMAMKD GELVIWDSVHPCYTVFHEQTET FSSLWSEYHDDFRQLHIYSQD VACYGENLAYFPKGFNIEMFFV SANPWVSFTSFDLNVANMDNF FAPVFTMGKYYTQGDKVL MPL AIQIRKSDGTLQEHDGICEIHVA KYAEIFGLTSAEASKDIRQALKS FAGKEVVFYRPEEDAGDEKGY ESFPWFIKRAHSPSRGLYSVHIN PYLIPFFIGLQNRFTQFRLSETKE ITNPYAMRLYESLCQYRKPDGS GIVSLPIDWIIERYQLPQSYQRM PDFRRRFLQVCVNEINSRTPMR LSYIEKKKGRQTTHIRISDGTL QEHDGICEIHVAKYAEIFGLTSA EASKDIRQALKSFAGKEVVFYR PEEDAGDERGYESFPWFIKRAH SPSRGLYSVHINPYLIPFFIGLQN RFTQFRLSETKEITNPYAMRLY ESLCQYHLCGTLRNSRFCEIHV AKYAEIFGLTSAEASKDIRQAL KSFAGKEVVFYRPE/VGCRR*K RL*IFSLVYQTCAQSIQRALQCT

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24597	54965	A	24735	1	2286	MLTLILLDLQFMAQLAGYQMS FNSTKSKQTKNNFAVGVRTGD FQLHTNVNDGAIEFGGSVYQKV CEELDALINLAWTSSTSCTRFG LAAKFQLKPIAFISTKVNHWLT GVSYPPEAGVKLNLSALCDN LKTCHTSHGSMVMAETA VINHK KRKNSPRIVQSNDLTEAAYSLS RDQKRMLYLFVDQIRKSDGTL QEHGICEIHVAKYAEIFGLTSA EASKDIRQALKSFAGKEVVFYR PEEDAGDEKGYESFPWFIKRAH SPSRGLYSVHINPYLIPFFIGLQN RFTQFRLSETKEITNPYAMRLY EIPVVSIRKPGMGSGIVSLKIDW IIERYQLPQSYQRMPDFRRRFLQ CINAGHEMTKAIAIAQFNDDSP EARKITRRWRIGEAADLLGVSS QAIRDAEKAGPLPHPDMENRG RVEQRGGYTIEPNNHMRDGVG TRWRAEDVFPPPLIGVAGHKG GR\YKTSVSVHLAQLDLALKGLR VLLVEGNDPQGTASMYHG WV PDLHIHAEDTLLPFYLGEKDDV TYAIKPTCWPGLDIIPSCALHR IETELMGKFDEGKLPTDPLML RLAIETVAHDYDVVIDSAPNL GIGTINVVCAADVLIPTPAELF DYTSALQFFDMLPDLVKNRDL KGVEPDVFIRDKLMERRNRRT GRTEKARIWEVTDRTVRTWIGE AVAAAAADGVTFSVPVTPHTF

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24598	54966	A	24736	1	1400	MDAKMHSGGTAPPGTLSQRQP SSNSKTNGSKLNPLKDTLLSTPS CPEGELVNAARRSNGSGNAITL PVWGRDVKFTLEVLRGDSVEK TSRVWSGNERDQELLTEDALD DLIPSFLLTGQQTPAFGRRVSGV IEIADGSRRRKAAALTESDYRV LVGELDDEQMAALSRLGNDYR PTSAYERGQRYASRLQNEFAG NISALADAENISRKIITRCINTAK LPKSVVALFSHPGELSARSGDA LQKAFTDKEELLKQQASNLHE QKKAGCDNLKTCHTSHGSVMA ETA VINHKKRKNSPRIVQSNDL TEAAYSLSRDQKRMLYLFDVQI RKSDGTLQEHDGICEIHVAKYA EIFGLTSAEASKDIRQALKSFAG KEVVFYRPEEDAGDEKSYEQPS KDIRQALKSFAGKEVVFYRPE/ VGCRR*KRL*IFSLVYQTCAQSI QRALQCTYQPISHSLLYRVTEP
24599	54967	A	24737	1	1628	MLHITNDQGNASQNHNAMPPY SCKNGHNLKTVDDGMDAVNG EHFYTAGLSQGPKGSFLLFFNI LILVCPPIFRVSGNEVFIRDKLM ERRNRRTGRTEKARIWEVTDRT VRTWIGEAVAPLLLTCDNLKTC HTSHGSVMAETA VINHKKRKRF SPRIVQSNDLTEAAYSLSRDQK RMLYLFDVQIRKSDGTLQEHD GICEIHVAKYAEIFGLTSAEASK DIRQALKSFAGKEVVFYRPEED AGDEKGYESFPWFIKRAHSPSR GLYSVHINPYLIPFFIGLQNRFT QFRLSETKEITNPYAMRLYESL CQYRKPDGSGIVSLKIDWIJERY QLPQSYQRMDFRRRFLQVCV NEINSRTPMRLSYIEKKKGRQT THICDNLKTCHTSHGSVMAETA VINHKKRKNSPRIVQSNDLTEA AYSLSRDQKRMLYLFDVQIRKS DGTLEHDGICEIHVAKYAEIF GLTSAEASKDIRQALKSFAGKE VVFYRPE/VGCRR*KRL*IFSLV YQTCAQSIQRALQCTYQPISHSL LYRVTEPVYTISAY

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24600	54968	A	24738	1295	1675	SVTSCLKVTSVCLTSGRRFLQIR ISDGTLQEHGICEIHVAKYAEI FGLTSAEASKDIRQALKSFAGK EVVFYRPEEDAGDEKGYESFP WFIKRAHSPSRGLYSVHINPYLI PFFIGLQNRFTQFRLSETKEITNP YAMRLYESLCQYRKPDGSGIVS LKIAWVIERYQLPQSYQRMPDF RRRFLQVSDFLMAPYRNIDGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIKRAHSPSRGL YSVHINPYLIPFFIGLQNRFTQFR LSETKEITNPYAMRLYESLCQY RKPDGSGIVSLKIDWIIERYQLP QSYQRMPDFRRRFLQVCVNEIN SRTPMRLSYIEKKKGRQTTHIE HDGICEIHVAKYAEIFGLTSAEA SKDIRQALKSFAGKEVVFYRPE EDAGDERGYESFPWFIKRAHSP SRGLYSVHINPYLIPFFIGLQNR TQFRLSETKEITNPYAMRLYQS LCQYRKPDGSGIVSLKIDWIIER YQLPQSYQRMPDFRRRFLQIRK SDGTLQEHGICEIHVAKYAEI GLTSAEASKDIRQALKSFAGKE VVFYRPEEDAGDEEGYESFPWF IKRAHSPSRGLYSVHINPYLIPFF IGLQNRFTQFRLSETKEITNPYA MRLYESLCQYRKPDGSCIVSLK IDWIIERYQLPPRYQRMPDFRRR FLRVVWQEINSRTPMPPLLPWE
24601	54969	A	24739	1	1986	

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24602	54970	A	24740	1	398	MVDSLIARVGVMARGNAITLP VCGRDVKFTLQVLRGDSVEKT SRVPPGNERDQEMLTEDALDD LIPSFLTGTQQTAFGRRVSGVI HTADGSRRRKAAALTEKFCIVD NPPGEIRKRACLFIPHTALNLNR FEDICYAHQLPDGGLLSARVGV MARGNPILSPVCGRNVKFTLKV LRGDSVENPSRVWSGNERAQE LLTEHALDDLTLFLLTGQQT AFGRRVSGVIEIADGSRRRKAA ALTESDYRVLVGELEDDEQMAA LSRLGNDYRPTSPYERGQRYAS RLQNEFAGNISALADAENISRKI ITRCINTAKLPKSVVALFSHPGE LSARSGNERDQELLTEDALDDL IPSFLTGTQQTAFGRRVSGVIH TADGSRRRKAA/DTYRKILYR** PPGGD*KKSVPFYSENTCAQSQP
24603	54971	A	24741	1450	3699	RNPLQIPKQQQNEKYQVPQFDQ STIKNIESAKGLDVWDSWPLQN ADGTVAEYNGYHVVFALAGSP KDADDTSIYMFYQKVGDNIDS WKNAGRVFKDSKFDANDPIL KDQTQEWSGSATFTSDGKIRLF YTDYSGKHGKQSLTTAQIFQ MITVFITSLCNTTSSHICLHISWV TTMHGAMPHPGHIPTAPASLPA KVKGSGKVCWLAFLSELTPPS ALQVNVSKSDDTLKINGVEDH KTIFDGDGKTYQNVQHFIDEGN YTCGDNHTLRDPHYVEDKGHK YLVFEANTGTENGYQGEESLFN KAYYGGGTNFFRKESQKLQQS AKKRDAELANGALGIELNNDY TLKKVMKPLITSNTVTDEIERA NVFKMNGKWYLFDTSRGSKM TIDVPQAKSTNVVITSYMTNRG FFEPEGSKGSITAAMAKGLSV ASGNSTPERRRATANENVQPR IRDAEKAGRLPHPDMEIRGRVE QRVGYTIEQINHMARDVFGTRLR RAEDVFPPVIGVAAHKGGVYK TSVSVHLAQDLALKGLRVLLV EGNDPQGTASMYHGWVPLHI HAEDTLLPFYLGEKDDVTYAIK PTCWPGLDIIPSCALHRIETEL MRKFDEGNLPTDPLMLRLAIE TVAHDYDVVIDSAPNLGIGTIN VVCAADVLIPTPAEQLDIS\SS RQFFDILRDLKKNVDLKGFEPD

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24604	54972	A	24742	1	3899	MVDSLIPVGV MARGNAITLPV RATNVKFTLEELRGDSVEKTSR VWSEKKDRGGQEA EVSGEGSS QTKSLQKRQHSNGSDFTARGF HTGQALVR SKGTYWNPTGLGL SHGTEDPNLIGEELDAGEWDK NTRKELAVLNVR RDFADFGTTI KQDFRLLGQTSVDRLLQLSQG QAVKGNQLLPVSLVKRKTTLA PNTQTASPRALADSLMQLARQ VSRLESGQFWVFEGGLRVLVR ERVTT PKGTASMYQGWVPD
24605	54973	A	24743	268	2617	RMFRMKLMETLSQCINAGHE MTKAIAIAQFNDDSP EARKITR RWRIGEADLVGVSSQAIRDAE KAGRLPHPDMEISGR\VKHGVG YTIEQIYL\TRDVF GTRL PRAED\ VFPPVIGVAAHKGGVYKTSVSV HLAQDLALKGLRVLLVEGNDP QGTASMYHGWVPDLHIHAEDT LLPFYLGEKDDVTYAIKPTCWP GLDIIPSCLALHRIETELMGKFD EGKLPTDPHMLRLAIETVAHD YDVVIDSAPNLGIGTINVCAA DVLIVPTPAELFDYTSALQFFD MLRDLLKTVDLKGFEPDVRILL TKYSNSNGSQSPWMEEQIRDA WGSMVLKNVVRETDEVGKGQI RMRTVFEQAIDQRSSTDTSLS AAPMVDSL IARVGV MARGNAI TLPVCGRDVKFTLEVLRGDSVE KTSRVWSGNERDQELLTEDAL DDLIPSFLLTGQQTPAFGRRVSG VIEIADGSRRRKAAALTESDYR VLVGELDDEQMAALSRLGNDY RPTSAYERGQRYASRLQNEFAG NISALADAENISRKIITRCINTAK LPKSVVALFSHPGELSARSGDA LQKAFTDKEELLKQQASNLHE QKKAGVIFEAEVITLLTSVLKT SSASRTSLSSRHQFAPGATVLY KGDKMALNLD RSRVPAYIIRSY IRCGRKGFASAGVGGCRGWLN YAASEQIVLRVHHMRCEIPHRC

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24606	54974	A	24744	1	2624	MTPQKRGYLCKAGARNLDVLL EGCEIFLLIPMGMRSESGVSDA DTVSA PRKKHSLEQGIFRAQVE ASKPSSVPACIVVGNVSGYQFP PGTSYGP DSESELGYREKFMSF VGT MNEAGNPPFSANYSKAKK PKPRMFSLIERMSPSPRVGSQSV QSSCFRDIPFEQDQMFPHPSLVL RSKEQQPLLTQSIGVNSARKAM AKRRRRHRRRRRVSGVLP IAVG VPS*SVHLPKVLSCSGASWI*QS CISRLGRLSPTRL MNVA\GNDP QGTASMYHGWWVQILHIHAEDT LL/PFY/LGEKDDVTYAIKPTCW PGLDIIPSCALHRIETELMGKF DEGKLPTDPHMLRLAIETVAH DYDVIVIDSAPNLGIGTINVVCA ADVLIVPTPAELFDYTSALQFFD MLRDLLKNVDLKGFE PDVRILL TKYSNSNGSQSPWMEEQIRDA WAS MV*K\NNVRNANEV GKDT LKG FYSLKERPLGNHFLGPNNR PFGKIMKHKT PAFGRRVSGVIEI ADGSRRRKAAALTESDYRVLV GELDDEQMAALSRLGNDYRPT SA YERGQRYASRLQNEFAGNIS ALADAENISRKIITRCINTAKLP KSVVALF SHPGELSARSGDALQ KAFTDKEELLKQQASNLHEQK KAGGFCFRNHHQTGFSPAGA NQRGPLAATLSGPGGEGQSAV ARLTGEKKNHPGAQYANRLSP
24607	54975	A	24745	1	385	MWQAISRLLSEQLGEGEIELRN ELPGGEVHAAWHLRYAGHDFE VKCDERELLPGFTA EADQLELL SRSKTVTVPK\AFILGQQIARLH QWSDHAVLKIVTTGVL*GAYV GAPSIWKCPERITLPGYHQ
24608	54976	A	24746	1	1209	

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24609	54977	A	24747	1	857	MHACRSELLGEGEIELRNELPG GEVHAAWHLRYAGHDFVVKC DERELLPGFATAEADQLELLSRS KTVNRALKVWA\VGADRELT FLVMDYLPPRPLDAHSAFILGQ QIARLHQWSDQPQFGLDFDNA LSTTPQPNTWQRRWSTFFAEQR IGWQLELAAEKGIAFGNIDAIVE HIQQRLASHQPQPSLLHGDLS GNCALGPDGPYIFDPACYWGD RECDLAMLPLHTEQPPQIYDGY QSVSPLPADFLERQPVYQLYTL LNRARLFGGQHLVIAQQSLDRL
24610	54978	A	24748	1	2094	
24611	54979	A	24749	1	1209	MVREDLYTYSCNTSREQQQL ENPMESPLCSKEINQGGVFMLA GKASDTLLAGGTMMNLGGEDS DTIVENGSIYRLGTDGLQLYSS GKTQNL SVN VGGRAEVHAGTL ENAVIQGGTVILLSPTSADENFV VEEDRAPVELTGSVALLDGAS MIIGYGAE LQQSTITVQQGAPP VKLRFALYGRPGFTKCGWMLG YKPAHDKTLLRITRGHDFACYQ RTTQLARQRLKVC SHLIVGLP GEGQAECLQTLERVVETGVDGI KLHPLHIVKGSIMAKAWEAGR LNGIELEDYTLTAGEMIRHTPPE VIYHRISASARRPTLLAPLWCE NRWTGMVELDRYLNEHGVQG SALGRPWLPTENSLMKQIRLL AQYYVDLMMKLGLVRFSMLL A\WPSSFLPLWYKWR
24612	54980	A	24750	200	310	
24613	54981	A	24751	1	4398	MCIPVPPIATGDRHFIAVAHIHQ NSRRSPVDSDESSTRSAVAHP ATRDFNVRLYTVTSSVSPTKP PLPATFRQGRYRPAEPCVGSIG VIPQSSCVLANGSTGAQSAFGDI IRAGPPSAGLVPAQATVIETFL RYQTINERDFWAARNRLKQP YGSRLRFT EAYAIAERAAQSV LRISLADAFNVDGPRPAEDSIFR LLRMPGSAVQRPDRRHNRRCQ YRPAMAFPAAGSKANKQRQYNG GRQFYRKRICWL

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24614	54982	A	24752	939	2169	RPASPPARDGARWSTGLHSSYS AMRCRNASTCAEDSQLS/DPLA R/PSVASGPYRVTSWKLGNIV YCRVKDYWPATLTVNRGRWN FDTIRSDYYLDDNVAFEAFKAG AFDLRMENDAK\NWATRYT/G DRRVREAITLAFDFFWVNKAL FYNAWSRTNSYFQNTTEYAARN SPPPEL\VLLPPIKKVLPSEVFPA QIYQPPVSKGDGYDRDNLKA DKLLNEAGWVLKGQQRVNAT TGQPLSFELLTPASSNSQWVLPF QHSLQRLGINMDIRKVDNSQIT NRMRSRDYDMMPRVWRAMP WPSSDLQISWSSEYINSTYNAP GVQSPVIDSLINQIIAAQGNKEK FLPLGRALDRVLTWNYMIPM WYMAEDRLAWWDKFSQPAVR PIYSLGIDTWWDVNKTAKLPS ASKQGE
24615	54983	A	24753	3	450	
24616	54984	A	24754	2	203	PLPDAARYLRRQCQKPARVHDI FAAMHTAHRSPDRPSLPDDAF SSLRL*FFQPEHYPRQYQHRIIL CS*ERYQHQALESRTFRSG*PTP SVPETSTGSRYFCGNAHSAPKP PRPPITTGRRVFFTTPLILPTRAL PASISTPASL
24617	54985	A	24755	1016	1219	
24618	54986	A	24756	1695	2021	PDTFSMLPATRFLPPLQFPDLQH PEAAQYAHWLPASGCFLFLPPP GSGTVFLLPYSPRLCRSTSETP LPAITR*HFPVTDRVQK*ITRRR KPRHKPFYPDDLQRDAR
24619	54987	A	24757	1671	1911	
24620	54988	A	24758	513	1104	CWRNCARCERNLVFRCQYGIY WCDNAANRSCRTKRDQPRLVE W*KSACSHHR*LH\PCGHCRQF MNELNSGLDLRIHLPGREAHAL RDYLPDAFGPKDLEIKTILMDE QDHGYALTGDALSQAIAAAN RSHMPYSKSPSGVALECKDGRV LVAATLKTPH/INPTQICGPWS MHRRALTSKFGAHGDRRTSAG FRRN
24621	54989	A	24759	131	759	
24622	54990	A	24760	662	889	LPIKCRAARGVPARCLRWTW ALRRILPPLRNRSRAASRWAS PGARK*WMPSLQAVWAAPMR VTRLPAWLWKC

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24623	54991	A	24761	1	1518	MQRRDGDIALIYRSKIGPRTSIT FTARRANPVQRIAARILLRDHLI CRMSCAARHANTFDLIQSG ADNFAAIYGGANDRITRADA VAGAGNWHRFGISNGKLSPRSI TRTSSPARAMTKMPYNPQASG GSNLAVSNPELDKLIARVAAL RAANPDASASVPVELVTASASY PRSLMRCNRILSPGSARGQMIIT ALFIYAGNPIACVAALEVLKVF EQENLLQKANDLGQKLKDGLL AISFWRAKWLKIFVVCGAEIFV EYVLKNKVIWLLCFANIFYV RIGIDQWSTVYAFQELKLSKAV AIQGFTLFEAGALVGTLLWGW LSDLANGRRGLVACIALALIIAT LVIPFHMVFHPNEQYAYCVNEL NSSVDVWELKDPHGNECVQT LDMMPENFSDTRWAADIHITPD GR\HLYACDRTASLITVFSVSED GSVLSKEGFQPTETQPRGFNVD HSGKYLIAAGQKSHHISVYEIV GEQGLLHEKGRYAVGQGPMW
24624	54992	A	24762	3	486	ACRRALKDAGVEADEVLEV MVGGSTRVPLVRERVGEFFGRP PLTSIDPKVVAIGAAIQADILV GNKPDSEMLLLDVIPLSLGLET MGGLVEKVIPRNTTIPVARAQD FTTFKDGQTAMSAGGAHIRVTF QVDADGLLSVTAMEKSTGVEA SIQVKPSYG
24625	54993	B	24763	1	2469	
24626	54994	A	24764	1255	1761	ESFQVRTHGTGEPVNKTRTSQA VSHHNQSCQVDQCVPCAVIAG NVFPRHNVQGGH*RNCCQTNR SSINDFTKLSNTRPISVHSLGIKQ SRPDRHAKASPVVTA VKACEQ VIAAVNQIADDHQPDRTKQRN AIVVADDLPDLFPVHFFGVVDHQ QHNHRDKKQPGEDLLCC
24627	54995	A	24765	1	3141	
24628	54996	B	24766	1	3969	

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24629	54997	A	24767	643	2082	GAHAMDKHFSTTPAEKNLPVL LALIGIWYNNFFDKNDALVMV DDFPRRSGLSWKIVVVPHEYW VGGSTRVPLVRERVGEFFGRPP LTSIDPDKVVAIGAAIQADILVG NKPDSMLLLDVIPLSLGLETM GGLVEKVIPRNTTIPVARAQDF TTFKDGQTAMSIHVMQGEREL VQDCRSLARFAICVVFRRYRL/A GAHIRVTFQVDADGLLSVTAM EKSTGVEASIQVKPSYGLTDSEI ASMIKDSMSYAEQDVKARMLA EQKPGQQEAKLALKTFHWQQA IADKRVIGAGITGVTAGTDHRA DVTEVASDFRVQTTNADSALF HVRSAQQHIHQLLHFTTHLLCQ LAGLDHVVFQIATNPADQVQ AVGFTRTGKDLCHFHHGGFTHA EELHKAGVEAGKVTGQAKVEQ MRVQAFYLQQNGADHLRTFW HLNTHRVFHRRGVGGAVGKA ADPAHTVREEGHFVITHTGFRQ FFHAAMDVEQ
24630	54998	A	24768	1	502	

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24631	54999	A	24769	1	2345	MFMIGALVLALVMTLITFMVL RRIVIRPLQHAAQRIEKIASGDL TMNDEPAGRNEIGRLSRHLQQ MQHSLGMTVGTVRQGAEEIYR GTSEISAGNADLSSRTEEQAAAI EQTAASMEQLTATVKQNADNA HHASKLAQEASIKASEGGQTVN GVVKTMGAMSTSSKKISEITGR HQQGIRTPVTAVKGRCPLDE GDTDTAYYALRDIFALTPNRKR LAIPVSTDNPGKPKDPSLSKD VSNRVPQVRPCYDSPRSSSVNG NRLPGKDFHDDERSMGRSGSY VLALAYPPKIALSDADSVTVNV AGWQGEISREQFNELIAPLVKR TLLACRRALKD\AGVEADEVLE VVMVGGSTRVPLVRERVGEFF GRPPLTSIDPKVVAIGAAIQAD ILVGNKPDSEMLLLDVIPLSLGL ETMGGLVEKVIPRNTTIPVARA QDFTTFKDGQTAMSIHVMQGE RELVQDCRSLARFACVVFRRYR LAGPVDLFLRPWEVDISRRSL DSPLPVQVLEASPKGHYTQLVV QPLGWYNEPLTVVMHGDDAP QRGERLFVGLQHARLYNGDER ASRDPGFLMARFVTCRDPKTRK LRIRQHHVWIEIVSTLEQTIGNT PLVKLQRMGPDNGSEVWLKLE GNNPAGSVKDRAALSMIVEAE KRGEIKPGDVLEATSGNTGIAL AMIAALKSYRMKLLMPDNMSQ
24632	55000	A	24770	313	676	DCQPRSSAFTKPDATTAGHYLA GSGGRMTQLAIGKPASLGAHLE REGGENFTFFSLNADGEKL/CVF DANGQ/EHRYDLPGHSGDIWH/ G/YLPDARPALRMVSRH/GP/WQ PAGGMLTPAVVMILPRK
24633	55001	A	24771	1760	2053	FRVHGKNAFSH*IKPAAMLLPS SPVTRSVKPTQCGSAPSKRPNL TLLPSITLMPPLPVTDLKLGCI PCSSDCFSFITFSISCATRLSVNW LPAAGQ
24634	55002	A	24772	296	732	
24635	55003	A	24773	606	695	
24636	55004	A	24774	1520	1737	PVHGLCGTRRDAGS\PAIYPFHS LML/RFWLR/TCTVPGWPLDDS SLAGEAFSAFTTDAAVWSLISA TAMLAVQAG
24637	55005	A	24775	1	1049	

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24638	55006	A	24776	248	933	RTTMRAVSRPKYCSRERWL/HY DFTVARFDENASCGTFAATSAV VLIFSHCLRLLCRVVVLVTRVN FQFTEHSTTQRAFWQHAFNRDF NHTLRTASNHLFKGRLFDTTDV AGVVIVHFVSTLVAGYSNFVSV QNDDVITGIYVRSVFRFVLTAQ ATSQFSSQTAQSFTGRVNNIPV AFYGFWFSCAKYYRHGARWCS NGRKIDQRHTHCFFCPCIRTDFA VEIGKEEFIT
24639	55007	A	24777	219	3441	DCQPRSSAFTKPDATTAGHYLA GHSGDIWHGYLPDARPGRLRYG YRVHGPWQPAEGHRFNPAKLL IDPCARQIDGEFKDNPLLHAGH NEPDYRDNAAIAPKCVVVVDH YDWEDDAPPRTPWGSTIIEAH VKGLTYLHPEIPVEIRGTYKAL GHPVMINYLKQLGITALELLPV AQFASEPRLQRMGLSNYWGYN PVAMFALHPAYACSPETALDEF RDAIKALHKAGIEVILDIVLNHS AELDLDGPLFSLRGI
24640	55008	A	24778	454	586	
24641	55009	B	24779	130	1557	
24642	55010	B	24780	92	2808	
24643	55011	A	24781	2	1051	WRLRPITPLWRWQKIFFPDA/R YGIRFRNLETGNWYPELLDNVE PSFVWANDSWIFYVVRKHPIFI DLTTEELAASSYHESWVLEDRII KDGSYNIDQGVGVRAISGEKTG FAYADQISLLALEQSAQAARTI VRDSGDGKVQTLGAVEHSPLY TSGRSGWQSMSREEKLDILRRV DKVAREADKRVQEVTASLSGV YELILVAATDGTLAADVRLGK VLLVGQSPNAELSARAKQIAM GVDGANEVYNEIRQGQPIGLGE ASNDTWITTKVRSQLLTSDLVK SSNVKVTTENGEVFLMGLVTE REAKAAADIASRVSGVKRVNR TLFLGYAVMFSELILAPVTPSNS
24644	55012	B	24782	1	2079	

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24645	55013	A	24783	1	3214	MGAEKQLIPDGC GVSYPSSGP LDKWRALLFIQPDYRADPVYR QIITITDLRILYDYTENFVLPLSH DEVVHGKKSILDRMPGDAWQK FANLAYYGWMWAFPGKKLL FMGNEFAQGREWNHDASLDW HLEGGDNWHHGVRQLVRDL NLTYRHHKAMHELD FDPYGFE WLVVDDKERSVLIFVRRDKEG NEIIVASNFTPVPRHDYRFGINQ PGKWREILNTDSMHYHGSNAG NGGTVHSDEIASHG RQHSLSL
24646	55014	A	24784	1	1079	MKQIKELQRL LGKKTWKMNSS KKPLNMDGPKVDSARALIGRG WGTHKFYRCDCIKPTIKTNTSS RGNEKNPDGSHNNIHSWFRL LTSQNMCKVPESPAILVDVGQS AETVQSVLTVKVEHPILRIAVA GYACQRQSCLLAMRHPQYAIN SSKVVKPCSTARQPFQKAYAYP PVVRAFPAINVGISGNKLTNDR RYGRTSNKAWGSGDGHTLSEC GWAPLAAGDNVGKVS YQTLG YYQRILGYIFYPIAW/VMGVPSS EALQVGSIMA/TKLVSNEFVAM MDLQK/IAS TLSPRAEGII SVFL/ VSFANFSSIGIIAAA AECRDWFG ILAAQTLAVRAALRVVQAERD CVLSMEQHQCARGRQR
24647	55015	A	24785	121	258	LTEPRHYCRSIQFFGLTNMGQN CYQLS*E*FIGTLNHIRIPQPLS
24648	55016	A	24786	1	470	WGS GDGHTLSECGWAPLAAG DNVGKVS YQTLGY YQRILGYIF YPIAW/VMGVPSS EALQVGSIM A/TKLVSNEFVAMMDLQK/IAS TLSPRAEGII SVFL/VSFANFSSIG IIAAA AECRDWFGILAAQTLAV RAALRVVQAERDCVLSMEQHQC CARGRQR
24649	55017	A	24787	1324	1539	GWCGCEVPFKITDGLACLLQSP QGHQTFCT*HNLGLQPFWIPM CLCSVN VFKTRLILTQVEEGCR AVSMTQ
24650	55018	A	24788	71	403	RTTFIFDLSSGWP FILWQVLSPN *RCLQVGLFAQIPTGRMGCLHR FLTCRMGVCTDSSPAGWAVTLI RMSPIFPASSKSTLSAALLNTSC LHSRDLEPPGAFRSGGPVLL

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24651	55019	A	24789	309	1653	SVLMDESDIYRNNRERFFCVFL LVGVPARGACLGCGGCGCLCV RYLRSAGWGCGRRFPCVGDN WSAILAHIGKPEELDTSARNAG ALTRRREIRDAATLLRLGLAYG PGGMSLREVTAWAQLHDVATL SDVALLKRLPKCRHWFGILAG QTLAHIRVLPVIIRAIGFLLSKV NGMGKLESFNAVSSLILQSEN FIA YKDILGKISRNRMYTMAAT AMSTVMSIVGAYMTMLEPKY VVAALVLNMFSTFIVLSLINPYR VDASEENIQMSNLFEGQSFFEM LGEYILAGFKVAIIVAAMLIGFI ALIAALNALFATVTGWFGYSIS FQGILGYIFYPIAWVMGVPSSE ALQVGSIMATKLVSNEFVAMM DLQKIASTLSPCAEGIIISVLLDSF ANFSSIGIIRAVKGLNEEQGNE GSRFGLKLVYRSTLVS\VLSASI AALVLS DHT
24652	55020	A	24790	754	957	
24653	55021	B	24791	75	3707	
24654	55022	B	24792	75	264	
24655	55023	B	24793	344	461	
24656	55024	A	24794	1	2203	
24657	55025	A	24795	20	198	
24658	55026	A	24796	1239	1409	RGPPTPFFHVWEWQQRPLSVW EADHV*RRDEGACPRMVARAR NCRPKLLELRAESQ
24659	55027	A	24797	1325	1564	
24660	55028	A	24798	323	694	TGYARQKVPALGWWTNVSAS TAPPIILPSITGSRLAVIKWLTVS AGKLSALLCASCQKGGGAKWR MAMANGITNKLAIQCSPPHSTI EKFTSQSQHVLA*GVSAVRSM VSSG*GRRPLPALG
24661	55029	A	24799	4708	4878	
24662	55030	A	24800	20	199	
24663	55031	A	24801	743	1186	

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24664	55032	A	24802	1394	2651	KLMTCRHEGSLGDDPGINGQL WDVNRIDVTAHEGTWERWTV RADEPQAFHIEGVMFQIRNVNG AMPFPEDRGWKDTVWVDGQV ELLVYFGQPSWAHFPHYFNSQT LFSWPQYWAACFGPAPFLPMS REEMDQLGWDSCDIILVTGDA YVDHPSFGMAICGRMLEAQGF RVGHIAQPDWSSKDDFMRLGKP NLFFGVTAGNMDSMINRYTAD RRLRHDDAYTPDNVAGKRPDR ATLVYTQRCKEAWKDVVPVILG GIEASLRRTAHYDYWSDTVRRS VLVDSKADMLMFGNGERPLVE VAHRLAMGEPISEIRDVRNTAI VKEALPGWSGVDSTRLDTPGKI DPIPHPYGEDLPCADNKPVAPK KQEAKAVTVQPPRPKPWEKTY VLLPSFEKVKGDKVLYAHASRI LHHETNP\AVPAH

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24665	55033	A	24803	1	2126	MQEKQVLAAYVQPSSEGQSRS RRARRVSQCHQHSAAAASLAR TAASATADSAHPPCPRSAARAG ATMHVKKYLLKGLHRLQKGPG YTYKELLVWYCDNTNTHGPKR IICEGPKKKAMWFLLTLLFAAL VCWQWGIFIRTYLSWEVSLS VGFKTMDFAVTICNASPFKYS KIKHLLKDLDELMEAVLERILA PELSHANATRNLFSIVNPTPL VLIDERNPHHPMVLDLFGDNH NGLTSSASEKICNAHGCKMA MRLCSLNRTOCTFRNFTSATQA LTEWYILQATNIFAQVPQQELV EMSYPGQMILACLFGAEP CNY RNFTSIFYPHYGNCYIFNWGMT EKALPSANPGTEFGLKLILDIGQ EDYVPFLASTAGVRLMLHEQR SYPFIRDEGIYPMSTGTSIGVL VDKLQRMGEPYSPCTVNGSEV PVQNFYSDYNTTYSIQACLRSC FQDHMIRNCNCGHYLYPLPRG EKYCNRDFPDWAHCYSDLQ MSVAQRETCIGMCKESCNDTQ YKMTISMADWPSEASEDWIFH VLSQERDQSTNITLSRKGIVKLN IFFQEFNYRTIEESAANNIVWLL SNLGGQFGFWMGGSVLCLIEFG EIIIDFVWITIILKVALAKSLRQR RAQASYAGPPPTVAELVEAHT NFGFQPDATAPRSPNIGPYPGEQ ALPNPG/TPAPPNYDSWRLQPL
24666	55034	A	24804	905	1051	
24667	55035	A	24805	1	1257	
24668	55036	A	24806	1	3116	MPIITLPDGSQRSFDHPVSVAEV AQSIGAGLAKATLAGKVDGRLI ITPKDEEGLEIIRHSCAHLVGHA VKQLYPTAKMVIGPVIEEGFYY DIFFERPFTPEDMAAIQORMRE LIDKDYDVIKKMTPRAEVIELF KLQAAPDRRHAGREGHGLYFH EEYVDMCRGPHVPNTRFLKAF QLTKISGAYWRGDSKNEQLQRI YGTAWADKKQLAAYIQRIEEA EKRDHRRIGKQLDLFHLQEEAP GMVFWHPNGWSVYQ
24669	55037	A	24807	1924	2790	
24670	55038	A	24808	1	1185	

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24671	55039	A	24809	823	5990	MARPVPLWSSWGLRTSYLPKP LSVNPSRNDGSA/FAGTHPLGV TRGTLAGPAFVRLSLVFLRRV LAGSSLLPLLMG*QK/PEVLLPD GASEHDYSLRPSDVKRLQNAD LVVWVGPEMEAFMQETGKQIT RSEVSPLCRRVAFNKFNRDPQP RYDWGRLTVLYSGSSLSGGRY VVIHRECHCQLSKPLRLEQNEIR SLLPEASEPIDQAAQEDEAIPQD ELDDKIAGEAGVHEYVVSTGD TLSSILNQYGIDMGD
24672	55040	A	24810	2305	2550	
24673	55041	A	24811	665	844	ISFNNEVISYRLSGKNQ*LNLG* EIWLESGAFKKALSPQKHPGLE PSVCTPTPTLVPDR
24674	55042	A	24812	1	2031	
24675	55043	A	24813	106	912	HFETVIDQRDFHPVFSHKGIRAT PEGNEEKQQRVADVTEQCGRRC RCQPPAATLTQAVKNVHVEDL PQRVGHETGGGDTGDKQVEVG ECAESHTLDALGLRCPEPMMM VRKTVRNMQPGETLLIIADDDPA TTRDIPGFCTFMEHELVAKETD GLPYRYLIRKGG**GLIGFDAAF SPHPNPLPRGARGPIALNVAIGL PYLLRNNLNAFAVTSTVAPVSA STASHNPVIQRGDEEDPFQPQR NSDVLADIGVSGACQFNHLHQ AAQVVMG

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24676	55044	A	24814	1	1495	MQKLTLYAETRRLYGKEVYH RPSRFIGELPEECVEEVRLRATV SRPVSHQRMGTPMVENDSGYK LGQVRHAKFGEGETIVNMEGS GIAALCHCRVLIATAALMDPDD AVELSVTTMMFALCNTRNPRV AWDTAPCVPATTAASMAKRAP DMSQSAAPEAGSQKPPRLSCGE SLHPLPATKRAYNYCRPVGRIR HLCRIRQSMPDATLSRLIRPTTV ADPPDKALAPHPAVFTRGDSKF LSHKPARSPAIRYLLASVWGPV GMMAMMLAMTGFVVATRKLK RRFGFKSCKNGVLYRISSSITT SPASPIATCRPVLPCWMRMDPM LDMMGMQMLMEKYGDQAMA GMDHSQMMGHMFLGHKVIRA NHVGDWGTQFGMLFRIAVETF KEDWEAVWDQLDDLNLLEGKIV A*GRDPAAFHIDNGAFTKLSVA YALAEVAAVVLDHRRTHPLM ADRAAYRGAQAHLFHTLFRQL ADKARRAMVNLFTIQTAGFRV GQRQFLH
24677	55045	A	24815	3	707	GCTLGPVKSFSLRVAWLSWPQ YFYIIRACSPCCGPLAPGEAPH VNLFHSTHSENKKQPHNSPYHN DIQPTLNYLPTNQKKQTQQEQS HNITKQGSQQLHDVTQVPYQAY RSAIVVGLIRRDVSGIDCRM RRERLIRPTGRASDNTEFTGTQ NMQNITHSWFVQVMIKATTDA WLKGWA*AQRRQPDATPG*RR YRTISRQFPATSVLYPAQPAHA FTGKYTVYCHRLGQILP
24678	55046	A	24816	2	1340	
24679	55047	A	24817	1	2457	

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24680	55048	A	24818	41	1053	QRNQQAHLST/QHSRDIYDNQV HLVRNCNLEMPDQEFIVLYGPS DCGKSTTLRMIAGLEEISGGDL LIDGKRMNDVPAKARNIAMVF QNYALYPHMTVYDNMAFGLK MQKIAKEVIDERVNAAQILG LREYLKRKPGALSGGQRQVA LGRAIVREAGVFLMDEPLSNLD AKLRVQMRAEISKLHQKLNTT MIYVTHDQTEAMMATRIVIM KDGIVQQVGAPKTVYNQPANM FVSGFIGSPAMNFIRGTIDGDKF VTETLKLTIPEEKLA VLKTQEV CPDHTLDALGLRCPEPV/HDGA QNRAQYAAWRNVADYRRRSG HYPRYSWVLYLYGTRTGC
24681	55049	A	24819	3	131	
24682	55050	A	24820	247	492	
24683	55051	A	24821	2	241	YFFQKSSKTVIGGRRLCSVFRY QFSIVLATC*GTFPSR*STILS* VTQSATSSGREGRSSSRSLNGRF MFSIASMMSW
24684	55052	A	24822	1	1143	

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24685	55053	A	24823	242	2151	FSRQHVVVKMKHCCKNVVILMP EPVAEPALNGLRLNLRIVSIVMF NFASYLTIGLPLAVLPGYVHDV MGFSAFWAGLVISLQYFATLIS RPHAGRYADSLGPKKIVVFGLC GCFLSGLGYLTAGLTAVCLSSA VILCRGVQLHPVSDLRIPRGEK AGRNRSVDGCCEKAMSVIIVG GGMAGATLALAISRLSHGALPV HLIEATAPESHAHPGFDGRAIAL AAGTCQQLARIGVWQSLADCA TAITTVHVVELHNVGQRLFAIL LRKAPGVTLHCPDRVANVART QSHVEVTLESGETLTGRVLVAA DGTHSALATACGV DWQQEPYE QLAVIANVATSV AHEGRAFERF TQHGPLAMLPM SDGRCSLVWC HPLERREEVLSWSDEKFCREIQ SAFGWRLGKITHAGKRSAYPL ALTHAARSITHRTVLIQSERLNII KALEKRTLTVWDNSFLIYRQSD VSEIRLASLFASF SIRKSKQQR KHTNRRSKDKEKRTRQKRKTT SRQRRRRQRMVRVGDEQIAGC HCLYSTGSPNRQLREAGIELSDF VRGNEKARERMKAQYSIAGMT SGVVVGTDHAAEAITGFFTKYG DGGTDINPLYRLNKRQ GKQLL AALACPEHLYKKAPTADLEDD
24686	55054	A	24824	2	91	
24687	55055	B	24825	1	2346	
24688	55056	A	24826	1	1713	
24689	55057	A	24827	1	918	
24690	55058	A	24828	415	816	
24691	55059	A	24829	72	296	FCSATFGRPSDQYQNGE*LRWR GLGSFACQSPAHE NPQWKFVL ARRGFARGTAEAHPSQYRHWC KIHRLNPGLR
24692	55060	A	24830	1	620	

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24693	55061	A	24831	1625	2460	GVVNPRQGRVLSMLPAMLLYL LFFLIQTSLKSNNGGKGKLDPTL WMWTVNLIYLALAIVLNLWDT VPVRRRLRASFSRKGARIPFVGC RETCELPQIELVKMMLGRELDT HALQRAGRTLSDKPVAAFKN YGKKGTIAPFDLEVRPGEIVGL AGLLGSGRTETAEVIFGIKPADS GTALIKGKPQNLRSPHQASVLG IGFCPEDRKTDGIIAAASVRENII LALQAQRG\CYVFPAPKNSKRL PNALSASLAF AHLQLNNRLNFS PAAISKKCCFYVGY
24694	55062	A	24832	1	2034	
24695	55063	A	24833	3839	3970	
24696	55064	B	24834	694	765	
24697	55065	A	24835	1778	1982	
24698	55066	A	24836	1	268	MTCRLLTRLPGQAGVGKRVSG VPDELSPLFSVGSRYLQGGVGL VSPTSGANVGLPVISTNNLVKE CR\DGKWKMTGKCLNMFHFK
24699	55067	A	24837	568	713	
24700	55068	A	24838	217	1910	AFTFQESVMAFSQAVSGLNAA ATNLDVIGNNIANSATYGFKSG TASFADMFAGSKVGLGVKVAG ITQDFTDGTNTTGRGLDVAIS QNGFFRLVDSNGSVFYSRNGQF KLDENRNLVNMQGLQLTGYP TGTPPTIQGANPTNISIPNTLM AAKTTTTASMQINLNSSDPLPT VTPFSASNADSYNKKGSVTVFD SQGNAHDMSVYFVKTGDNNW QVYTQDSSDPNSIAKTATTLEF NANGTLVDGAM/ANNIATGAIN /GLSFLNSMQQNTGANNIVATT QNGYKPGDLVSYQINDDGTVV GNYSNEQTQLLGQIVLANFAN NEGLASEGDNV\WSATQSSGVA LLGTAGTGNFGLTLN/GSIESGI AFLVNVPLNPKLKRNVNAGAR WHPYGWPAFAERAELIEPEGD RRTHHRPNNQRTYSRKTQRQG GHKTRQDNWEQKGDGGRPEP TDPHQHDANRPTVATKKRRKS TQSQRNHRNPKGTHPTEEHT AGTTKPPDTPQTDNWTGKSL REGKANRKRNPLRGAEVAGGG KQRAKAERQTQRGERREDVDE GEEDRSKKTEK
24701	55069	A	24839	500	653	

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24702	55070	A	24840	445	849	GSPGTAGTEVAVVLKIGGVHD KVIGHYRCSTTNTGRVLDVAI/S QNGFFRLVDSNGSVFY/SRNGQ FKLDENRNPATGTPT/IQQGAN PTNISIPNTLMQRKPTAGQIVLA NFANHEGLASEATTSGLRNLL AWRCM
24703	55071	A	24841	1	453	MKQMDTRGKVINCAFAVSAAF ALGDHLGFAAANMNAMIFPMI VGKLIGGVTAIGVAMMLVPRY EFIKREISWQSPVFFTPVDKQGG LKEAELKTLILEQYHAAGIEPES VDSGAIITGESAKTRNAR*TGR FKRSGTENL\KLEQYHAAGIEPE SVDSGAIITGESAKTRNARPTV MALSQLGDFVVASAGPHLE
24704	55072	A	24842	370	670	YSSNIMLRVLSRKALILVPSSSP VKARKPAMLARRGWRSLRW AILSLPGPGR*TGRFKRSGTENL KLEQYHAAGIEPESVDSGAIIT GESAKTRNARPAGMALSQLG DFVVARAGPHLESVNAGYRTRI RNHGHSWFPGEIGIRSQFPHTLR TGSINGKAWGA
24705	55073	A	24843	1	1623	
24706	55074	B	24844	1	4986	
24707	55075	B	24845	65	726	
24708	55076	A	24846	4107	4460	FMSTCGYGGGLSRFPARCLSYQ PLRSWRETVAASG*RRTGSARA NCFCSGLTRDFSIRPETK*SA QTFVVGWRCGGMGR*IAAVL SRYSTVESGVSSTHHRLPLQPD PSGRRL
24709	55077	A	24847	624	895	PLVPAYKQSQRQKPHDYLNRC RKSL*QNSTTLHAKNSQ*IRY* WD/SISE**ELSMTPQPISY*MG KNWKHSL*KLAQDRDALSHRS YST
24710	55078	A	24848	1434	1594	
24711	55079	A	24849	1294	1488	PAGKQTQQRQQFANDGRGEI WRKLIKPNRRQKS*CSTDPRQ KSTLISQREAVIRRFSEAGNFH
24712	55080	A	24850	595	879	RRCSTTNIKKIQQDKKGNRKA VHRSRFVHGRPITLLFFQLSGRI QSHRLPGRAALFAGIPAACDQS PSLRQPISSEWSRGR*HRRIFRS* SEEF

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24713	55081	A	24851	1009	1478	YSLSVSVWAGATVMESPVWM PIASKFSIEQTMMQLSFLSRTTSI SYSFQPISDSSISNSLVGERSRPR AQISSNSSRL*AIPPLPPMVKD GRIMHGKPTSAATASASSIVCAI PERAVSRPIFFIATSKRRRSSALS IASAVAPIMVTPNSSNTP
24714	55082	A	24852	48	209	GLFQVGYAENCRDNNHSFSLH SVVIGSSSERVVAKK*PDADIIF SASFVPVILK
24715	55083	A	24853	1358	3194	PTASFAATLAIGKPVAFDASAE ERDTRGFISITIRPFFGFTANVT RLETERGGGICSRSPWEVVS KI AWAEAPDPPGVTLGLKTQHAT /VSEVTSRFRSHYRQFDL.DQ AFSAKIFDRYLNLLDYSHKRKT ELGDEAAFSAKLDVFYDLYNL AQKRRFERYQYALSVLEKIPMD FTGNDTYNLDRSKAPWPKNEA ELNALWDNVFSLAMTAFAREI DPHTNYLSPRNTEQFNTMSLS LEGIGAVLQMDDDYTVNSMV AGGPAAKSKAISVGDKIVGVG QTGKPMVDVIGWRLDDVVALI KGPKGSKVRLEILPAGKGTKTR TVTLTRERJRLDRAVKMSVKT VGKEKVGVLDPGFYVGLTDD VKVQLQKLEKQNVSSVIIDLRS NGGGALTEAVSLSGLFIPAGPIV QVRDNNGKVREDSDTDGQVFY KGPLVVLVDRFSASASEIFARD VVVGLCICLSSLDVWLCGLFCR CSVDAERTKRQGGKGEESRKR RRKGYELSYLLFGWSAVVLLF VSDAEQHRASRHGGNACQQHP DVRHDEADGYPRQSHQLRLRR FRCFRPGRPLRLRRCQHERIIDL PDDCRQVDRRRNGDWRGDDA
24716	55084	A	24854	100	671	
24717	55085	A	24855	852	1335	YFCFWTYPLLFPVCMRKAAGK HG\APAGDLYVQVQFNSHPIFE REGNTLYCEVPINFAMAALGGE IEVPTLDGRVKLKVPGETQIGK LFRMRGKGVKSVRGAQGDIL CRVVVETPVGLNERQKQLLQE LQESFGGPTGEHNSPRSKSFFD GVKKFFDDLTR
24718	55086	A	24856	326	471	PLQTHPAPQQRGHPYQHGGQTV S*SCRRRGWSSISRPIVHHADAQ LMP

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24719	55087	A	24857	1095	1283	SCRRRGWSSISRPVIHHADAQL MP*PQIVYQHLKPPGIYRQQDR L*IPD*RPVLTIQDVRGP
24720	55088	A	24858	1	1159	
24721	55089	A	24859	1744	3019	KISPRRPQET/CFQKSTNIAREKT LEQEFVQLFEKIGRRMCLTRE GKKLLPHIYELTRVMDTLREAA KKESDPDGELRVVSGETLLSYR MPQVLQRFQRAPKVRSLQSL NCYVIRDALLNDEADVGVFYR VGND DALNRRELGEQSLVLVA SPQIADVDFTEPGRHNACSFIN EPQCVFRQIFESTLRQRRITVEN TIELISIESIKRCVAANIGVSYLP RFAVAKELECGELIELPFGEQSQ TITAMCAHHAGKAVSPAMHTFI HALYSCRMRRERLIRATRSCQF NILHEPRRADKRSASGSLRLQE FNYQDKPCMEIRIRTYEKTPIR MDKGLTNFGSRWILPELAHKE KDEETQQRKSKRDSRREETDT KKKTRDKATKREKDKIEEMA SISITSRCEDKLENFSSMKYYTEI
24722	55090	A	24860	321	575	SYRRYVFPAQ*NRHLQFAVKPP APVIVHPTLV DSEHHHSLHDKR RQHRPHHSVAHHGSRNSSATA TINALLGRVAQNAATRGR
24723	55091	A	24861	935	1637	PQPPPLRREGAGLEKELGGRR VRVKGSGCQPWICGKVPVFIPV ITEQESFQELI/RRTTTACESLGK EYEILMIDDGSSDNSAHMLVEA SQAENSHIVSILLNRNYGQHS MAGFSHVTGDLITLDADLQNP PEEIPRLVAKADEGYDVVGTVR QNRQDSWFRKTA SKMINRLIQR TTGKAMGDY GCM/LRAYRRHI VDAMLHCHERSTFIPILANIFAR RAIEIPVHHA EHS
24724	55092	A	24862	1020	1229	

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24725	55093	A	24863	98	1242	MDKFRVQGPTKLQGEVTISGA KNAALPNLFAALLAEEPVEIQN VPKLDVDTSMLLSQLGAKV ERNGSVHIDARDVNVFCAPYD LVKTMRASIWALGPLVARFGQ GQVSLPGGCTIGAHIVMDKVS GATVTIMCAAILTEGATHIEVFY FLPLAIGKFNELYPNIKVRILAEQ GTNNCMESVLCN\ESDFG\NMA NNVTNSSI\DTPLVQRRPFVLA ACRRDHPLAKKQLVEWQELVG YKMIGVRSSSGNRLLEQQAD KPWKLDWFYEVRLSTSLGLV EAGLGISALPGLAMPHAPYSSII GIPLVEPVIRRTLGIIRKDAVLS PAAERFFTLSDFCPGVPSEDNI FESPASQQHEYIGSRQCFLMPSE TTGTMHV
24726	55094	A	24864	1	833	MAELGKRSSVAVSWIGKVKT AQMVALAWLLWRPIWVEYA GIALFFVA AVLTLWSMLQYLTL RVQICLISDRFGVIFSKRSKVVK NIVDSSRQEYLEEFYARYNVELI RAPEGFFYLRPRSTTLIPRSVLS ELDMMVGKILCYLYLSPERLA NEGIFTQQELYDELLTLADEAK LLKLVNNRSTGSDVDRQKLQE KVRSSLNRLRRLGMVWFMGH DSSKFRITESVFRFGADVVRAGD DPREAQRRLIRDGD/AMPIENHL QLNDETEENQPDSGEEE
24727	55095	A	24865	819	1428	SPRGISRGGCRCQPISGDGVRIFA GILHGLDNELPLQEEVEGNLE QEGLPPIRQSDALDLCFSDILV SPNMYIDDGMKRDWPVMKQC ALQRRWRILPDHYGTEPAEKRP GFAPHYCFSYALLVHMMMAQQC DLEVGDFVWTGGDTHLYSNH MDQTHLQLSREPRPLPKLIKRK PESIFDYRFEDFEIEGYDHPGK
24728	55096	A	24866	2	1445	
24729	55097	A	24867	1	1785	

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24730	55098	A	24868	3	654	VRFFKGRGSSWHMVISQWDYV ADRFGTADLLPFTISDMDFATA PCIIEALNQRLMHGVFGYSRWK NDEFLAAIAHWFSTQHYTAIDS QTVVYGPSVIYMVSELIRQWSE TGEGVVIHTPAYDAFYKAIEGN QRTVMPVALEKQADGWFCDM GKLEAVLAKPECKIMLLCSPQN PTGKVWTCDELEIMADLCERH GVRVISDEIHMDMVWGEQPHIS LE
24731	55099	A	24869	955	1278	TLTPDFL*QGHFFRFAGIAYQIV KQTTVGTTVEITLRRYVVDGNR IPPRQDRQGDAFFGFATHTQQW HQVFKRQRDIQIVTANTATTVT QQAGFTIETRTPLRPHQQQ
24732	55100	A	24870	1	1707	
24733	55101	A	24871	1	3615	
24734	55102	A	24872	1	1931	MLLLREHTDTRHDHPRTPTTRAT RRRRHTEKKRRKKKRPATHV MTATLIPVSRLLATDQPQLFHE SASKPAPHLVSSLGCHCGDASC SGRAVADAMQFKTVFPVFVAA AMNPEHMAESGHRITRPEFPDY RELFRESDIKSAVVDSICQCNT FNYLFRCFELQCLSRHGHSAYG VMQRRHSPMQETRIASLPLQRY RWHEDSVNRNWFVSVMGPSVR VNEWFSAYAMAGMAYSRVST FSGDYLRQPLVSGFHEA
24735	55103	A	24873	1281	2234	ISTNSILRIFSGFRKLMEV/TRLR DTPILTFMKNKLD/DIRDPMELL DEVENELK/IGCAPITWPIGCGK LFK/GVYHLYKDETYLIQEVRI KGLNNP/DLDAAVGEDLAQQL RDE/LELVKGASNEFDKELF/LA GEITPVFFGTALGNF/GVDHML DGVFMAGDRSHVEEAY/PGDIL G/QGEMMKFTGIPNF/APELFRR IRLKDPLKQK/QLLKGLVQLSEE GAVQV/FRPISNNDLIVGAVGV LQFDVVVARLKSEYNVEAVYE SVNVATARWVECADAKKFEF KRKNESQLALDGGDNLAYIATS MVNLRLAQERYPGRQFHQTRE

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24736	55104	A	24874	2	760	AKFEKFLAVPAEALVYTMKG DQKYFPVYANDGKLLPNFIFVA NIESKDPQQI/DRIQALAGWIAE QIGADVNHATRAGLLSKCDLM TNMVFEFTDTQGVMMGHYAR HDGEAEDVAVALNEQYQPRFA GDDLPSNPVACALAIADKMDT LAGIFGIGQHPKGDKDPFALRR AALGVLRIIVEKNLNLDLQTLT EEAVRLYGDKLTNANVDDVI DFMLGRFRAWYQDEGYTVDTI QAVLARRPTRPADFDDWHA
24737	55105	A	24875	2	391	
24738	55106	A	24876	2	1785	WLLYRAHVKG/STEALLPNM VATSLAKLPIPKLMRWGATYV HFVRPVHTVTLLLGDKVIPATIL GIQSDRVIRGHRFMGEPEFTIDN ADQYPEILRDSGKVIADYEERK AKIKADAEAAARKIGNADLSE TLLEEVASLVEWPVVL/TAKF/E EKF/LAISRTALVPYSADNMYQ LVNDVQSYQPQLPGCTGSRILES TPGQMTAAVDVSKAGISKFTTT RNQLTSNQSILMNLVDGPFKKL IGGWKFTPLSQEACRIEFHLD FTNKLIELAFGRVFKELANMV QAFTVRAKEVYSASMRYIYVIV YISYRPPNLLDSHIIGFSSITTHC AVTSHHYNSCDMTMTIHSYVT PYISVRVSLTQTYAPSPSRNLRI TDLTIYRAISSEKSIDDTRHIHTI ESRCRVCGAHDSDRDAERLDRF AQTADEIRIADRGFSSRPECIRS LAFGEADYIVRVHWRGLRWLT AEGMRFDMMGFLRGLDCALIS KTRLLSENRRKGRVVQAETLE AAGHVLLLTSLPEDEYSAEQVA DCYRLRWQIELAFKRLKSLHL DALRAKEPELAKVGIFANLLAA FLIDDIIQPSLDFPPRSAGSEKKN
24739	55107	A	24877	1	2022	
24740	55108	A	24878	2344	2523	
24741	55109	A	24879	82	732	

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24742	55110	A	24880	828	2184	SGCILPPESLRLWASVARRPRTP NQPRQPGPKJGGISPAGSALALA CGKRTVLFASLCTRGTGGSQGE \PALVLLADQMLALDDQYTFLQ RIPRSPYGLAFGPVPHLHYLHQ MRLLDIAPIAFRAMSLAFPVNY LDAVRTGSICSNCNQRSNDSAM GISMNVSTLMRVRAIWVYAAAY MERVLNLLNNALRYCHSTVE TSLLLSGNRATLIVEDDGPPIAP ENREHIFEPFVRLDPSRDRSTGG CGLGLAIVHSIARGNWATSDHR SLTGTQPYARIVVFLVRLIFAFR VTQLTLQISFVRVQNAFP CPLGIGIDVHFYAVAYGVDF LSSRTGTTVFDDLNTPDFDRC FAFMQAVGKGYTDAYLPIVER RKAMAYGERERNFQLYRRGRY VEFNLPSELAATVYQSDPNFAT GCFRLYTSCNTFNMHKAATML VRAEFSQGYQHGV
24743	55111	A	24881	679	1628	PDADAKRVDITLCLAFGCDAQF IEITFTRLPEVRIHHLQSPASALS SCNHLLIRITQFNADITIGHHL VNRRVVTVLRDMRHHGDIVHP GVRRGVEHYAAMDGPVKEIM EVRLFLAVFVGNHHSRRDRLP VQFVHTNGDITYTFPGNNIRRD IGFKWRIAALMLHHFLIIDPHFA VMSDRIETQHDTLACPNFRYKD FALIPERCRII/SEYLDRTDRLK WCYAAFQQGDQSQASNPMYA KAPV*VRWVHGYKALSEKGHL VYQRLYQIFQHAETGTND EISTKLCLFSSSSLLSSSLQHSI PPNACL
24744	55112	A	24882	1	1515	
24745	55113	A	24883	1954	2859	
24746	55114	A	24884	121	393	SLARWIICTSEELAANIKRLGD VTVRLNAFHAGVYGEAQS GERHAGRR*AVG*CVKGARGE PVDISGAQL/RGCGVNALSGLR FGTDL

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24747	55115	A	24885	1	3706	MDLGANGWQTFRYVVLPLNLSS ALLAGGMLAFALSFDEIIVTTFT AEQVDAAVRAADAFAEWGQ TTPKVRAECLLKLADVIEENGQ VFAELESSNNTAFARASSNGDL PTKADLQAQLDSL NKQKDL SA QDKLVQQDLTDLATL DKIDRI KEETVQLRQKVAEAEPEKMRQA TAALTALSDVDNDEETRKILST LSLRQLETRVAQALDDLQNAQ NDLASYNSQLVSLQTQPERVQ NAMYNASQQQLQIRSLDG
24748	55116	A	24886	2842	5034	NVRLSPAMRCRWRRGSPMPAM FEVGVKTRIIQRSREVILMADHS KFDAVEPHAVATLSCI KTIISDS GLPETIAQRYQRAGSSLPEAQP DREIEKRGPAAIAQAFDAEGKPS KASEGWARGCGITVDQAERLT TDKGEWLLYRAHVKGESTEAL LPNMVATSLAKLPIPKLMRWG ASDVHFV\WPVHTVTLL\LGDK VIPATILGIQSDRVIRGHRFMGE PEFTIDNADQYPEILRERGVIA DYEERKAKIKADAEEAARKIGG NADLSESLLEEVASLVEWPVVL TAKFEEKFLAVPAEALVYTMK GDQKYFPVYANDGKLLPNFIFV ANIESKDPQQIISGNEKVVRPRL ADAEFFNTDRKKRL EDNL PRL QTVLFQQQLGTLRDKTDRIQAL AGWIAEQSGTDAGDQTGYSDE RWVPDAHSEAPSPVSDMLSAL LLLTLVL AGMVRMAARLLMA KPPQAVNRGDIGWLTTSPMVIL LVMMMLAMGTHIPQPVIRIPGGR FHYSPPHQRGRTDLPAQRSTWHD FCLQAPHLFRRNTVNVNSSNR GEAILAALKTQFPGAVLDEERQ TPEQVTITVKINLLPDVVQYLY YQHDGWL PVLF GNDERTLNGH YAVYYALSMEGAEK CWIVVK ALVDADSREFPSVTPRVPAAV WGEREIRDMYGLIPVGLPDQRR LVLPDDWPEDMHPLRKDAMD
24749	55117	A	24887	49	531	
24750	55118	A	24888	1619	1968	
24751	55119	A	24889	1	553	
24752	55120	A	24890	744	970	LAVISEASNQKRGDPVDHAD*I AVANMLLNQFQQSYTPMLHDL IVRYDGDIIHQKSFQVQLPGKL RIVKLIQPVE

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24753	55121	A	24891	52	455	
24754	55122	A	24892	2988	3614	PVSVLTQKRLSPATSHRSTCRVI LNQAYVTPSKCWPDPVEISFNF FHSEDVVRHPVVARIVNAYEA WEEAEQKTMTPANQHAGGLV QCDKMLLQRRSREVIELSEQNA AQMRHVRGADMAMIFQEPMT SLNPVFTVGEQIAESIRLHQNAS REEAMVEAKRMLDQVRPEAQ TILSRYPHQLSGGMRQRMIA MALSCRPAVLIADEPTTALDVT IQAQILQLIKVLQKEMSMGVIFI THDMGVVAEIAADRVLVMYQG EAVETGTVEQIFHAPQHPYTRA LLAAVPQLGAMKGLDYPRRFP LISLEHPAKQAPPIEQKTVVDGE PVLVRVNLVTRFPLRSGLLNRV TREVHAVEKVSFDLWPGETLSL VGESGSGKSTTGRALLRLVESQ GGEIIFNGQRIDTLSPGKLQALR RDIQFIFQDPYASLDPRQTIGDSI IEPLRVHGLLPKGDAAARVAW LLERVGLLPEHAWRYPHEFSGG QRQRICARALALNPKVIIADEA VSALDVSIRGQIINLLLDLQDF GIAYLFISHDMAVVERISHRVA VMYLGQIVEIGPRRAVFENPQH PYTRKLLAEDPVAEPSRQRPQR VLLSDDLPSNIHLRGEEAVVALI KPGAQIGR\ PQSWT
24755	55123	A	24893	134	595	IRTGRNESYKGDISRYKFVSAR ALRNEVRGGRCHKTIRRVSVG KKVIGLKFRHLVPVVTPEIVIP PAPVANDTLVAEVSQAPQAND PTFNEDLA*FAVLSTPTAILISC PGRWGPAAGSECGVRGAHAHR ELALRAFSCCCFSSNAISIPN
24756	55124	A	24894	708	1444	TDAPGDEEASLQRAAQAGVGK IIVPATEAENFARVLALAENYQ PLYAALGLHPGMLEKHSQVSL EQLQQALERRPAKVAVVGEIGL DLFGDDPQFERQQWLLDEQLIL V\KRYELPVILHSRRTHDKLAM HLKRHDLPRGTGVVYGFSGSLQ QAERFVQLGYKIGVGGTITYPR ASKTRDVIKPLASLLLETD PDMPPLNGFQQPNRPEQAARV FAVLCELRRPEADEIAQAVLNN TYTLVNVP
24757	55125	A	24895	1460	1777	

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24758	55126	A	24896	381	482	IPGPQSPQSSPDLGWLQC*NP*RLWKAPRSDK
24759	55127	A	24897	977	1144	
24760	55128	A	24898	2	280	CTFALRDEYPRMLNVDNKGLRDHIELQPLAV/DASYPGGDFRKNVAVYVPMW*SAHCEPEGRFAETGSRRYGEDFASTAPGFRRRAATRKRVRRKR
24761	55129	B	24899	1	1665	
24762	55130	A	24900	296	495	
24763	55131	A	24901	1	5352	
24764	55132	A	24902	187	280	AVDTGLADHRDVEPNMVARLP LSFTASLSIS
24765	55133	A	24903	1775	1981	HIWQNSLIVLFRGCRSAHAKVHRWKN*LPLNLAPLLPRSGSSAPIRPPPSAQARQPMKSTYGVDRRHS
24766	55134	A	24904	760	1473	
24767	55135	A	24905	1	2124	MNRMSGGYWQLFAESGETCRARELEQCLEDIFYDQRKESVRWHLDLHTAIRGSLHPQFGVLPQRDIPWDEKFLTWLGAAGLEALVFHQEPGGTFTHFSARHFGALACTLELGKALPFGQNDLRQFAVTA SAIAALLSGESVGIVRTPPLRYRVVSQITRHSPSFEMHMASDTLNFMPFEKGTLLAQDGEERFTVTHDVEVAKNAITEIKTQFEKEKLAQDRIKRNQ/LDANIQRNLNYSLDI ANAAGIKKPVYSN\DGIERKLEIEKAVTDVAELNGELRNRQYLVEQLTKAHVNDVNFTPFKYQLSPSLPVKKDGP GKAIIVILSALIGGMLYCRVCIKRNADSPEVFSGFS DPNVVLIAAVFIIGDGLVRTGVATVMGTWLVKVAGNSEIKMLVLLMLTVAGLGAFMSSTGVVAIFIPVVLSVAMRMQTSPSRLMMPLSFAGLISGMMTLVATPPNLV VNSELLREGYHGFSFFSVTPIGLVVLVLGILYMLVMRFMLKGDTQTPQREGWTRRTFRDLIREYRLTGRARRLAIRPGSPMIGQRLDD LKLRERYGANVIGVERWRRFR RVIVNVNGVSEFRARDVSLIAM SAADVDLRQFCSERLLEPDGIA RFSLIPESELIGESVREIGLRTRY GLNVVGLTRTGVALDGSLADE PLLLGDISWLWALESDRYAAMLGRSRSLTYRRGDEHCRASRSP

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24768	55136	A	24906	834	993	EEIEVARLRDQKSAEGGIQNRE YWPGRSGHR*SPHAPIIGTQFLQ ALFQTTWDQFVFALSACGRRHP TDGRRQNPAVSGHSVAARQPA HSQTDEASG
24769	55137	A	24907	3519	5161	
24770	55138	A	24908	374	1891	KWKLKRPDSNIDHRRVPNIET WFSRHDKTRPTSKNPSDYQAG DIVSWRLDNGLAHIGVVSDGFA RDGTPLVIHNIGAGAQEEDVLF NWRMRQCQHNQHNTATFNGP RILAEQPPGKEYAANGNGQLYP MSSLNIKQGSDAHFPDYPLASP SNNEIDLLNLISVLWRAKKTVM AVVFAFACAGLLISFILPQKWTS AAVVTPEPVQWQELEKSFTKL RVLDLDIKIDRTEAFNLFIKKFQ SVSLLEEYLRSSPYVMDQLKEA KIDELDLHRAIVALSEKMKAVD DNASKKKDEPSLYTSWTLSTFA PTSEEAQTVLSGYIDYISTLVVK ESLENVRNKLEIKTQFEKEKLA QDRIKTKNQLDANIQRNLNYSLD IANAAGIKKPVYSNGQAVKDD PDFSISLGADGIERKLEIEKAVT DVAELNGELRNRQYLVEPITK AHVNDVNFTPFKYQLSPSLPVK KDGPGKAIIVILSALIGGMVAC GGVLLRYAMASRKQDAMMAD
24771	55139	A	24909	1111	1895	PLVNFNSSSHVPVSNPSIQLSSITL PLVENESRARA\VKDQMDAIDHI QTGVRPLVFYSIVLPEIRAILQS EGFCQDIVQALVAPLQQEMKL DPTPIAHRTHGLNPNLNKYDA RIAAIDYTLAHHDDGISLRNLDQ AQVILLGVSRGKTPTSLYLAM QFGIRAANYPFIADDMDNI.VLP ASLKPLQHKLFGLTIDPERLAAI REERRENSRYASLRQCRMEVA EVEALYRKNQIPWINSTNYSVE EIA TKILDIMGLSRRMY
24772	55140	A	24910	77	434	EKKRGREDKPGTMATFPPATSA PQQPPGPEDEDSSLDESILYSL AHSYLGPLIMPPTSPLTPALV TGGGGRKGRTKREAAANTNRP SPGGHR/ERKLVTKLQNSERKK RGARRLRQSWR
24773	55141	A	24911	31	295	

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24774	55142	A	24912	75	426	EKKRGREDKPGTMATFPATSA PQ\QPPGPGGRDSQPWMDL DLL/YSLAHSYLG\GGGRK GHTKRE TAANTQPPQPLA GHERKTVDP KLQ\NSER KKRGARALRQELEM RRRPWTLTPSQ
24775	55143	A	24913	1	1107	
24776	55144	A	24914	1	1468	
24777	55145	A	24915	1	2463	
24778	55146	A	24916	1	603	
24779	55147	A	24917	118	1087	IRSKKMTTQTVSGRRYFTKAW LMEQKSLIALLVLIAIVSTLSPN FFTINNLFNIIQQTSVN AIMAVG MTLVILTSGIDLS /VAASIVGIEV NALVAVAAAL ALGAAIGAVTG VIVAKGRVQAFIATL VMMLLL RGVTMVYTNGSPVNTGFTENA DLFGWFGIGRPLGVPTPVWIMG IVFLAAWYMLHHTRLGRYIYA LGGNEAATRFSGINVNKIKIIVY SLCGQLASLAGIHKVARLSSAQ HTAGTGYELDAIAAVVLADDR QSGGDFAGGAGRQQKAVITTT GHLEYEHEKTGYPGFRCCA KR HRQCECDGKRHHRA GGLHA
24780	55148	A	24918	1	1286	MHEREPGLRAALAGQLEFRVG LGLGVWTLRLMELLRQRLELV VYTASDGQEYEMVSR LNWVN YLVLEDVHIILPDQMRG ITGCY ATHPHERRLHAGTVHRQ NIVN NPPDCVPRDAGEAEVAPDPSLA SLQLQTPPELPG LISCHNSIQVSN EARLFEL LICQWRDFRKR VIAA KSMQGRELEGGQ RGQDKATNP FRVLAL KSGDPDPHGAGRQ G SDLLLHPVS DAQVLQHFFQ RRA LLSSPWDYH DVVGLCAQEPCG YIMELFIIKHQCSLAQTAGSLAP EQKKELEMTVRY YISSADLTAE KFATAIRN/HWHV ENKLHWRL DV* RQFDKHCSTADSTRILASF VRHVNAALDVRVVFASGSETT HGDGARRYLR CVDVDWRRRT AVAQADKSARACHFYAGYH HHEHFADPVS VGAKYHTVFST

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24781	55149	A	24919	417	861	AKGPCPDRNHSSDDKDVIADG KTLRHSYDKSRR\RGAIHVISAF STMHSLVIGQIKTDEKSNEITAI PELLNMLDIKGKIITTDAMGCQ KDIAEKIQKQGVIFSLCPASHDD KKVTDLAVAVQGTGTLKTGSGGI LPPGGALKKISEKL
24782	55150	A	24920	3	1767	HISIIPDYR*AWKVEHKLSGILL LTIFAVISGAESWKDIEDFGKTH LDFWKQYGDFFENGIPVHDTIAR VWSCISPAKFHE\CFINWMRDCH SSNDKDVIADGKTLRHSYDKS RRRGAIHVISAFSTMHSLVIGQI KTDKKSNEITAIPELLNMLDIKG KIITTDAMGCQKDIAEKIQKQG GDYLFVAVKQRNGAVENRAKTQ TRIAFGDHFFRRQVSQRIRLFCH RLATQFAARLRMFATGQPMN GLRLLLFIVNKQAALLVNKLDA QMAAFQQLPGRGRQATVRRE MDLCAFAERMGLPVS RPGDIQE FHAGCRTKFDAGAFRDKHHVA CFGDHGLAFVANMQLPFQHHV DFVVVQGPREECVLPLHKTGG HAAAVVSGHKISQAHAMRLCA VETTKLDATGINHFDAAFAGHR FESSVDCACSATVSFITFPSVCD RFGNWLRSGRCSHAARKNEITL TNTRRSLRPKRNTERHDMQTR ATVIAAGEKLLPYAETLMSTW QAARKEVAHTSRHNEFSIGASA SLWDMVMTSAGAVVTTVVVA VRPSSFYILCSHKKKRTLHTKR EKTVDRRKEYETRAKRSETDT

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24783	55151	A	24921	110	1282	SNTPYI I K E N K M E L K K L M G H I S I I P D Y R Q A W K M E H K L S D I L L L T I C A V I S G A E G W E D I Q D F G E T H L D F L K Q Y G D F E N G I P V H D T I A R V V S C I S P A K F H E C F I N W M R D C H I S S D D K D V I A I D G K T L R H S Y D K S T / R R R G A I H \ V N N A F S T M H S L V I G Q I K T D K K S N E I T A I P E L L N M L D I K G K I I T D A M G C Q K D I A E K I Q K Q G G D Y L F A V K G N Q G R L N K A F E E K F P L K E L N N P E H D S Y A M S E K S H G R E E I R L H I V C D V P D E L I D F T F E W K G L K K L C V A V S F R S I I A E Q K K E P E M T V R Y Y I S S A D L T A E K F A T A I R N H W H V E N K L H W R L D V V M N E D D C K I R R G N A A E L F S G I R H I A I N I L T N D K V F K A G L R R K M R K A A M D R N Y L A S V L A G S G L S
24784	55152	B	24922	258	507	
24785	55153	A	24923	1	3060	M T E I E E N M L L P I S G Q E L P I R W L A Q H G S E K P V T H V S R D G L Q A I H I A R A E E L P A V T A L A V S H K T S I . I . D P L E I R E L H K L V R D T D K V F P N P G N S N L G L I T A F F E A Y L N A D Y T D R G L L T K E W M K G N R V S H I T R T A S G A N A C G G N L T D R G D S F V H D L T S M A R Y V A T G V L A R S M G L V I Y S F I Q H T L T L E E Y R E I T A F L F R E F T H A A A A R Y T G E Q E T L P L S P Q W I L R Q C K E V A S L C D G D T F S G E Q L N L M L Q Q R E W R E G F L A E R
24786	55154	B	24924	56	967	
24787	55155	B	24925	1	1776	
24788	55156	A	24926	1	864	
24789	55157	A	24927	424	513	
24790	55158	A	24928	1	5049	
24791	55159	B	24929	1	939	
24792	55160	A	24930	1	1837	

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24793	55161	A	24931	1	2249	MLPDIA RFLPRLANDQIEEFTW YVNHFTYSNAIKIFCYQMFLAS TQARASGAPLQRLFRAIGGNA WERPFRMVFCSAAFSEESSPFR ETNYEPQLFLGFATDYRFAGW TLRDVEMGYNHDSNGRSDPTS RSWNRLYTRLMAENGNWLVE VKPWYVVGNTDDNPDITKYM GYYQLKIGYHLGDAVLSAKGQ YNWNTGYGGAELGLSPITKH VRLYTQVYSGYGESLIDYNFNQ TRVGVGAGVNVAAQAEVLNLE SGAKQVLQETFGYQQFRPGQE EIIDTVLSGRDCLVVMPTGGGK SLCYQIPALLNGLTVVVSPLNS LKEKSANPFEFTFAAFAHAFHW VIQAIGMINTPADGSTHKQART SWLPYSSLPVLSVSTQDEKAKK KMRFMQRSKDSLAKWLSAILP VVIVGLVGLFAVTVIRDYGRAS EADRQALLEKGNVLIRALESGS RVGMGMRMHVQQQALLEEM AGQPGVLWFAVTD AQGHILHS DPDKVGRALYSPDEMQLKPE ENSRWRLLGKTETTPALEVYRL FQPM SAPWRHGMHNMPCNG KAVPQVDAQQAIFIAVDASDLV ATQSGEKRNTLIILYALATVLL ASVLSFFWYRRYLRSRQLLQDE MKRKEKLVALGHLAA/GVAHE IRNPLSSIKGLAKYFAERAPAGG EAHQLAQH VQIRRFHAHPAS

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24794	55162	A	24932	261	2115	TLVFCWHAKLLSHGVFMDIISV ALKRHSTKAFDASKKLTPEQAE QIKTLLQYSPSSTNSQPWHFIVA STEEGKARVAKSAAGNYVFNE RKMLDASHVVVFCAKTAMDD VWLKLVVDQEDADGRFATPEA KAANDKGRKFFADMHRKDLH DDAEWMAKQVYLVNNGNLLG VAALGLDAVPIEGFDAAILDAE FGLKEKGYTSLVVPVEDLAGI EIDHTTSMVMIFGIIFLTAVVVH IILHWVVLRTFEKRAIASSRLWL QIITQNKLFHRLAFTLQGIIVNIQ AVFWLQKGTEAADILTTCACL WIMMYALLSVFSLLDVILILGQ\ KFPA\AFQLPLKG\IFQGIKLMGP ILVGILMISLLIGQSPAILISGLGA MAAVLMLVFKDPILGLVAGIQ LSANDMLKLGDWLEMPKYGA DGAVIDIGLPTVKVRNWDNTIT TIPTWSLVSDSFKNWSGMSASG GRRIKRSISIDVTSIRFLDEDEM QRLNKAHLLKPYLTSRHQEINE WNRQQGSRESVINLRRMP\NIG \TFCAYLNK\YLGTH\PRIRKDM TLMVRQLAPGDNGLPFEIYAFT NTVVWLEYESIQAIDIFDHIFAIV EEFGLRLHQSPGTGNDIRSLAGA FKQ
24795	55163	A	24933	1	757	
24796	55164	A	24934	8	343	
24797	55165	A	24935	1423	1761	
24798	55166	A	24936	1	851	MKGDTKVINYLKLLGNELVA INQYFLHARMFKNWGLKRLND VEYHESIDEMKHADRYIERILFL EGLPNLQDLGKLNIGEDVEEML RSDLALELDGAKNLREAIGYAD SVHDYVSRDMMIEILRDEEGHI DWLETDLIQKMGLQNYLQA QIREEGKSIYQEQTAMKRPDY RTLQALDAVIRERGF/EARGTK AVHYTISR\TAH*ATGKYVRAA AVGAYRTAAPDGTAKTAGTA APGGVAGRRVAGR*TNRFDSA AAFTGGQRRQSGDVVASCTGS CVG

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24799	55167	A	24937	1645	2009	PVFIQFVEGMCGTANEPACLLV NQSPAIFYPGKIAAIWQNPRHV ESGSM*TL/IDSD*VSPTECLSPR HHYMPFEEAARGYEIFEKREEE CRKVILVPGAQSAEAAQKAVS GLVNAMPGGTI
24800	55168	A	24938	1	3936	
24801	55169	A	24939	1	2240	MRSMPMTRNSRNGKHDYKPPPR KRRQPPHDHTAPNSTPARNQRG RPHRPNRQAGQREQRANNPTP NTPSPPTNDPAEPHQTRHDSR QPHNTTPAYAEVAAALLTTDT NVTRRRRLRYMQPDTKLCHSAG KSIYQEQTAMKRPDYRTLQAL DAVIRERGFERAAQKLCITQSA VSQRIKQLENMFGQPLLVEDET RTQERLRRGEVVGAVSIQHQUAL PSCLVDKLGALDYLFVSSKPFA EKYFPNGVTRSALLKAPVVAFD HLDDMHQAFLQQNFDLPPGSV PCHIVNSSEAFVQLARQGTTC MIPHLQIEKELASGELIDLTPGL FQRRMLYWHRFAPESRMMRK VTDALLDYGHKADDIILRITAT AICGSDLHLYRGKIPQVKHGD FGHEFMGEVVETGKDVKNLQK GDRVVIPFVIACGDCFFCRLQQ YAACENTNAGKGAALNKKQIP APAALFGYSHLYGGVPGGQAE YVRVPKGNVGPVKVPLLSD KALFLSDILPTAWQAANKNAQIQ QGSSVAVYGAGPVGLLTIACAR LLGAEQIFVVDHHPYRLHFAAD RYGAIPINFEDESDPAQSIIEQTA GHRGVDAVIDAVGFEEKGSTT ETVLTNLKLEGSSGKALRQCI AVKRCGIVSVPGVYAGFIHGFL FGDAFDKGLSFKMGQTHVHA WLGELLPLIEKGLLKPEEIVTHY
24802	55170	A	24940	687	792	TPTLTRPLRHPVAYRATLK*NR PAKVSQLCCTNA
24803	55171	A	24941	3	510	AGDMVWLCVRTQISY*IPRTHP AVGIPRERPLRGADTPQRGASH RIRGEGKRK*KRWALLCCPGCN I*RHFCHHN*ERYFWIYWVEST GAVKHLQNTGHWLNAGALPV RRPRKSVTGSARQ\VSVPISAR ALLACPCGQCAGYATQFVMKS ITQRFNVACRTRMYAVG
24804	55172	A	24942	189	563	

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24805	55173	A	24943	1224	1772	GSPSVSLATSSCSIKVQNPGISR VVAGSSAIISNVSPGCILRTVLR TIITGSGQRRPSASSVWSGHTSC VFRTANFSSGMVNLVS SVTNLS PSIVPRIKFIAGDPINPETNIFAG WL/VNGFRRTYLLNNPVFHNH NPRRHGHRFGLIVGHVDHGGV QFLMQLADLCAHLHAQLGIKV
24806	55174	A	24944	1541	3675	LEIIKRKISMRRNWMHSHTRY WRFLDFPTLRGGRWMR*SGEK LNPISTPLRANCLALAQRATRL APMSFTWGMPTSQPDCAVPGR RALPPELLCLQRSSQS RFAGTAI T
24807	55175	B	24945	1	1497	
24808	55176	A	24946	650	739	
24809	55177	A	24947	4447	4804	RQNDRYSGRERHEITPLCW*IPR IAWALWLRSLRRGPQEKS LHN RVARTISWPYQARHPCRTLLGG HGFFLHIVLSQLPCLSYPLSSFA GLLARSSMFLKLAARFLCCRRS YAASPLSI
24810	55178	A	24948	1	3774	
24811	55179	A	24949	431	949	NYAIYHQNHGVNISPLGKTHN YRQQHCGITYYWRDLMPANK NYKQRWITPGSASFYRSSHKAL IRLLATRLPAFPWGRRSAWRWP VRY*IRVPSSGSYHLEISMRWVI FPQPKALTPSNLHWKTA*LWS* KTLSFVCWIATVLPARFWKLTD PWLAILPCANIYWQASAPD
24812	55180	A	24950	337	648	

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24813	55181	A	24951	1	1430	MFTYPHSHKFRVNRFGQVLLIE FSILLDGGRTGLGHSLSVWCISG DCSSFLQGKPTSLPLRKPSAIICS DSLSGSADLLRNHNFVCTAADT FTTDITPEAGDARLIGIAQTVRH LEDPMRAWKSHKSCEILDPIHR APVKENTHPARKINISDPAAGA VARIRYEGVLSVCRASASAYVS RSRTITVACWYVSNTGVTGATI GVKRQHRHARLFSGDGAPGFG TGKRDIRQLRRLVRIQIQRFFA AVLHVPTPWSRAIDAAALLTVI DVKVLTAACACQACRTLALRVA QVIDRCSNPGDIMSSVARRYWF ISRWSAKRDCAVSYDQDPGQA QRSCRSLVAVDRGLWLSAYC RSLMTQTLLPDDVPRILPNASSP SRLRCLHIWVITACWICANSSG FIARNL/GLCGWEKRLVKDLTRI QDTGRAKEILGATATLEFR*T PTLTRPLRHPVAYRATLK*NRP AKVSQLCCTNA
24814	55182	B	24952	1	1295	
24815	55183	A	24953	3151	3207	LQWLID*WCL**TFDLRFA
24816	55184	A	24954	2740	3917	NGRSVWAVKLELFRVKPLDIPQ QRVGQQHVLLKAFNRRLAMQF IQLIATDVTEILPLHVVEDGTDS LYCLALSHLRGRLSLRWREL PRGLGVNVSWCYPFKAQGQCA AEITDKAGQREIFGFARVKENA GYVIYECYQPDGDKLIRELPF SSLIFARQWFVVGELLQHLPPE DRITPIVGMLQGVVEKGGELRV EVADTNESKELLKFCRKFTVPL RAALRDAGVLANYETPKRPVV HVFFIAPGCCYTGYSYNNNSP FYMGIPLKFPADAPSRSTLKLE EAFHVFIPADEWDERLANGMW AVDLGACPGGWTFQLVKRNM WVYSVDHGSVMVQ/SLWITTGT CWGTRFHSARGQKFPEVLQGS QTLPAATDPPGMQWLASGVLE
24817	55185	A	24955	1	519	
24818	55186	A	24956	510	731	

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24819	55187	A	24957	1	1055	MRLCPEKTTKAKRVKAVLAWS KEEPWLSEWSEEVLEMGYKKL GDFSTAGAILETEIRPSPASAFTL DSQPPESNNLSEAKYAPNNIESI AKYFAPKSPMFSESPSGTALDS FNRNERRRWPLWPNKSGFGSD LTLSKIGISSPDIALERLYEQAR KLSGKFRALSELDESARSGVLK VLCAFA YQDYSRSAASTRKCD CCDGGGFTEAQVFTNKVSYPW GKPPYWSKMSRAVRPSDWESW TQAREVVRVKCKPCNGKGVIS NSCRCHGKGV LAKHESDRRG VPVMKACDRCGGRGYARLKFS SVMRALILLRRLKKTAAEYQL QPLFEELVAECKQESMADSIL SKVTR
24820	55188	A	24958	361	725	
24821	55189	A	24959	1100	1738	WQRSTLPLL FESAMQTGVNAG NPVAW*KSAGYGHKLYDAKN RLALVQSTALWASQLVQYLSTF FRKNLKRPFSEFVTLADEIEHVN AYLQIEKARFQSRLQVNIAIPQE LSQQQLPAFTLQPIVENAIKHGT SQLDGTGRVAISARREGQHLML EIEDNAGLYQPV TNASGLGMN LVDKRLRERFGDDYGISVACEP DSYTRITLRLPWRDEA
24822	55190	A	24960	1	2043	
24823	55191	A	24961	2164	2487	KLKRIARHNFHGIRDLHLFQQV NRFSSGFPTTYWLMMDHVVH LKTYSTCRIEGGHRFLKDHRS CAAPLTKLFFPRVKNIFSQQGN LPPMYAITARR*QTHNQHCGD

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24824	55192	A	24962	128	2574	QVVVVMAMVAKVVVIDIVVVV GVEMIRVKVVAIVVEVVVVEV VVVMVAWWW****WW*/DMG EARWWWVEYGVWEVEPEIILNA PQQYLLAGIGDTLAKWYEAVV LAPQPETLPLTVRLGINNAQAIR DVLLNSSEQALSDQQNQQLTQS FCDVVDAAHAGGGMVGGGLGDR FTRVAAAHAVHNGLTVLPQTE KFLHGTVAYGILVQSALLGQ DDVLAQLTGAYQRFHLPPTLA ELEVDINNQAEDKVIAHTLRPV ESIHVLPVTLTPDTLRAAFKKYS QSCFVIRLGGDFIHQLAENHIVI FVNNHNGTRCQTFQWAINCH TVSLQKFSVRKFLSDLFAIGGR RGVRPTEAPGHQKSDNQAHV SVSFDGLDLVFFVFNQWAGVV FCFDLFSRKRGRFSVWRNKGFG RYCQRLANFRDRQAFQLLNQIH FTRCKQVDNGGTEFKATHFLAF QQCHRTVVFPGRPAIKTRVERL DRYRNRMEKSNGQANLRVHG GTWEKLVQLDSAGMVNRVSS VGAPLREPIPTGKGAKEDTWG NLSSNDPLLEAFGGQFGIAISMH QTLATRGGKRNARPTTRPRFHR GTNPRGIAPHIGTANARYSTGH CPVALPFGLRGPPLARENVATA TKGHESASRETEVVAVAKLTSR VLLICDATHALPIQVLRNDIRVI AAGNGCTDDLQLEHLPANTDIR
24825	55193	A	24963	117	335	PGLAPATRRSTPGRFNADAGAD *RRAAGTGAGRAKRRGVGIHR CLADPFLADCRNAGLRGAALC GTAAASGK

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24826	55194	A	24964	208	1903	YLAIKTFRCLHDFFTDEQLSRA VWIYGKRAIAAAQTKLPAPFGL PGAKHILFRGHCSESDVQQLAA ESGDDRSVVIGVGGGALLDTA KALARRLGLPFVAVPTIAATCA AWTPLSVWYNDAGQALHYEIF DDANFMVLVDPEIILNAPQQYL LAGIGDTLAKWYEAVVLAPQP ETLPLTVRLGINNAQAIRDVLL NSSEQALSDQQNQQLTQSFCDV GDAIHAGGGMVWGLGDRFTRV EAAHAGPNGLTGLPQTEKFLH GTKVAYGILVQSALLGQDDVL AQLTGAYQRFHLPTTLAELEVD INNQA EIDK VIAHTLRPVESIH LPVTLTPDTLRAAFKKLIQGLIS AEQLAQALAEQNGVAWESIDA WQIPSSLIAEMPASVALHYAVL PLRLENDELIVGSEDGIDPVSLA ALTRKVGRKVRYVIVLRGQIVT GLRHWYARRRGHDPARAMLYN AVQHQWLTEQQAGEIWRQYVP HQFLFAEILTTLGHINRSAINVL LLRHERSSLPLGKFLVTEGVISQ ETLDRVLTIQRELQVSMQSLLL KAGLNTEQVAQLESENEGE
24827	55195	B	24965	31	205	
24828	55196	B	24966	69	402	
24829	55197	B	24967	1	721	
24830	55198	A	24968	1	1703	
24831	55199	A	24969	2853	2889	LIIGLDLPAVSAIFQRALRFTHV GIADGGAYVVQR/HRPDEPRRR CCSE
24832	55200	A	24970	297	473	
24833	55201	A	24971	1179	2148	CQVLRPRTKRLNVFLHRMQH QWRQREL VHNMC FVIACAKRK RAPFVQAAEEVVRPGQHDEF LAIWQTGSGTQSNMNMNEVLA NRASELLGGVRGMERKVHPND DVNKSQSSNDVFPTAMHVAAL LALRKQLIPQLKTLTQTLEKS RAFADIVKIGRTHLQDATPLTL GQEISGWPA SRS GTGS WRYSGG YWT KYP SGVCASRSKM NWYST RASDGGHASDAVRTAQAADRE LRAPVRDELNASITSKTRLAEST SLAEWVKASPHDDDKPILLPGE WEVNTRRERQKQGIPLDAGSW QAICDAARQIGMPEETLQAFCC Q

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24834	55202	A	24972	166	365	NPFNSPWETYPVAFTIPLALFM GIYLRYL RPGRIGEVSVIGLV/SP DFRHYLWRLGGRKSDLGTVL
24835	55203	A	24973	83	362	KPPCFLQASVTCWLRLPFASMI LPPCACS*ST*ESIRPAVVGPREP EGITFRRFGRTRVVNRMIFDVL RHLFTVIHPLFQFGVTYITDDN
24836	55204	A	24974	584	853	
24837	55205	A	24975	1	3017	MSQDPFQEREAEKYANPIPSRE FILEHLTKREKPARDELAVEL HIEGEEQLEGYAPVLAPESGII MRPTLTMPALTKFVDGTGPVW TGNLFPFLFITACGAVSGFHAI SSGTPKMLANEGQACFIGYGG MLMESFVAIMALVSACHDPGV YFAMNSPMAVLAPAGTADV ASAAQVSSWGFSITPDTLNQI ASEVGEQSIISRAGGAPTLAVG MAYILHGALGGMMDVAFWYH FAILFEALFILTAVD
24838	55206	A	24976	3	206	EPDFLPL**RRNHEQNYRDGKC TGSYRSLRTGR*SGQYDHHLRS DPGKSENGRSTGRRRCTGT'SVA G
24839	55207	A	24977	3	982	GDAEPFVFLPR\RKDHEYSLDH YQHRFYLRNHRHGKNFGLYKT RMRDEQQWEELIPPRENIMLEG FTLFTDWLVVEERQRGLTSLRQ INRKTREVIGIAFDDPA'YVTWIA YNPEPETARLRYGYSSMTTPDT LFELDMDTGERRVLKQTEVPGF YAANYRSEHLWIVARDGVEVP VSLVYHRKHFRKGHNPLLVYG YGSYGASIDADFSRSLSLDR GFVYAIVHVRGGGCKINLVVD NGKIVRAEAAQGKTNQGTLCI KGYYGWDFINDTQILTPRLKTP MIRRQRGGKLEPVSWEALNY VAERLSAIEKEYGPDAIQTIGSS

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24840	55208	A	24978	1339	3640	SPLSTAGISICGPLLIITDVDLGT TVAGIKGMIATGEGTTEWNSV MVAMLLTLIPPVVIVLVMQRAF VRGLVDMRNKMAGLKLQAVT KSWDGKTQVIKPLTLDVADGE FIVMVGPSGCGKSTLLRMVAG LERVTEGDIWINEQRVSELRLIG YMSRKMGGGKNRREPHIDVKR GIFGLSITPEFSEPLAEDFLSRRQ YGIRFRNLETGNWYPELLDNVE PSFVWANDSWIFYVRKHPVT LLPYQVWRHAIGTPASQDKLIY EEKDDTYVYVSLHKTTSKHYYVI HLASATTSEVRLDLEMAADAE PFVFLPRRKDHEYSLDHYQHRF YLRNHRHGKNFGLYRTRMRDE QQWEELIPPRENIMLEGFTLFTD WLVVEERQRGLTSLRQINRKTR EVIGIAFDDPAYVTWIAYNPEPE TARLRYGYSSMTTPDTLFDLDI DTGERRVFKPPE/V/PGFYAA/SY RREPRW/IVSADGVKYSFVAPR QHFRDAPVLSFLLFSDRAPFR NNGPRVLLLGYYHPELLGVT YSQSVHEARPKPLPIPHSRHRH VPTRNEMAQEKERPAGSQSLFR GLMLIEILSNYPNGCPLAHLSEL AGLNKSTVHRLQLQSCGYV TTAPAAGSYRLTTKFIAVGQKA LSSLNIIHIAAPHLEALNIATGET INFSSREDDHAILIYKLEPTTGM LRTRAYIGQHMPLYCSAMGKI
24841	55209	A	24979	1	248	
24842	55210	A	24980	839	1625	PDAFILTTKPAGAIPTSTSITRPIP FCPSFAPCENATPAAET/HQRNT RPEWRFTFAFFLFAIFRNAVNT VTMSIRKIGVHHNAANLVPW MTKFFQRFGIAFQSRGAVFHQH HHAGYAGQRGKTALAEQRLVF GFGINKQMRVPLIGEVYQFSG *CQRQSFTADGFTDSNAFNIS GNSTARDKLFIAGYGNRYFHC GVNAQIIFMQELGDFRHFVIF/A QKGNEYHGDTRISPGFRGRHH PLGALRLAASVERSGNGHRA
24843	55211	A	24981	2538	2864	GSSLINSKVMP/SF*QQNRKFAY KRAGVATDEFHAESFVRGRAP MKRKL*LFMQLGGDVIQPFDDGF IAGNTVYRCQQLAVGDAVGKI LHNRYAFRQQSTVIQQQCRHLP
24844	55212	A	24982	1	1281	

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24845	55213	A	24983	1	2180	METLNLYADLRSVTGEALLL DEPGVGVDPISRRELWQMVHE LAGEGMLILWSTSYLDEAEQCR DVLLMNEGELLYQGEPKALTQ TMAGRSFLMTSPHEGNRKLLQ RALKLPQVSDGMIQKSNIVGI KDTIDSVGHLRTMINTVKSVRP SFSVFCGYDDHLLNTMLLGGD GAITASANFAPELSVGIYRAWR EGDLATAATLNKKLLQLPAIYA LETPFVSLIKYSMQCVGLPVET YCLPPILEASEEAKDKNRPLVD LEHAALQVGKGIIPPLREYGAS EVRSVTRAFNHMAAGVKQLAD DRTLLMAGVSHDLRTPLTRIRL ATEMMSEQDGYLAESINKDIEE CNAIIEQFIDYLRGTQEMPMEM ADLNAVLEGVIAAESGYEREIE TALYPGSIEVKMHPLSIKRAVA NMVVNAARYGNGWIKVSSGTE PNRAWFQVEDDGPGLAPEQRK HLFQPFVRGDSARTISGTGLGL AIVQRIGDNHNGMLELGTSE RG GLSIRAWLPVPGTRAQGTKE GAREDAVEFFAKLGFVNQGEIT TPTTTPIRHFLMIKPVATLDDIL HRGDWCAQLQQAWEHIPLSE KMGVRIQQYTQKFFITMPETG NQNPHTLTFAGSLFSLATLTGW GLIWLMLRERHLGGTIIADAH I RYSKPISGKPHAVADLGALSGD LDRLARGRKARVQMVEIFGD
24846	55214	A	24984	875	1150	
24847	55215	A	24985	1507	1974	
24848	55216	A	24986	1	1006	
24849	55217	A	24987	1491	1703	RECRYATNGKNNGCCRSAGSD FSSRLRYVR*PFIYTQ*SCGIGH CPGTDIRAKIRRTARFIKNGTY CPS
24850	55218	A	24988	1	1758	
24851	55219	A	24989	1773	2165	PSRGVEVNSGWNWQATNRRVI RNFDDLQLIIPGTARNAQTCIF NFVTVTMTLNNCRRIVQLANQ/ DYRQPTGTAVAETHGTAEIALL ATNFNVAVFIAPLGNQRHNRVL TVWHKFRRVGVLVGNMASVI N
24852	55220	A	24990	1	141	SPGKIRPVIAAAMKQIKEFMSP DSDFFRYMKTPTSATR*YND CGTGQ

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24853	55221	A	24991	1430	1933	PIIVCMGSLTMPDSACMAPFPSPS AVRRWNSSFPTFSAHTSSPCA CYPRCYRTVKGVL**HHR*W/V LISTPGRGAYAASKYALEAWSID ALRMELRHSGIKVSLIEPGPIRT RFTDNVNQTQSDKPVENPGIAA RFTLGPEAVVDKVRHAFISEKP KMRYPVTHGDLWR
24854	55222	A	24992	1318	4265	LAIVALFLDLQNHIFSKGFWPS DKFYAAKVEEQNRHQRYHGT SYNLEPDIKSSPGGLRDIHTLQ WVARRHFGATSLDEMVGFGFL TSAERAELNECLHILWRIFAL HLVVSRYDNRLLCVHPTLLTTL DIHGEAQIWRREVSSRYGQYPK AQAAQPDQLMSDYFFRVSLAM QNKTLFLSLDDTLVNNALQTLN KTRPAMVDVIPTDGIVPLYINPQ GIAKLLRNETLTSLPKNLEPVFY NAAQTLLMPKLDAL
24855	55223	A	24993	1	454	MGFDDTRDRALFEDSAMSQQP TVPDLRLRWLLQTFKYQKNIRI* STPRKKPMRHSIWNWGSRRRC WSNPKRTFMSISVRGNMAAIM SFHTSAVMRSHCSILTIIKSRW ATLNTLILR
24856	55224	A	24994	65	330	
24857	55225	B	24995	1	1998	
24858	55226	A	24996	1175	1877	QQVPQKGPGRAKRHLHAAGW HWHQRDRCPPEKNVRQ*RRYR AVRFIII
24859	55227	B	24997	1	3117	
24860	55228	A	24998	1888	2412	ARFKHVGDGTVTHRLFRRAAQ IVRVV*RAVSHRQHFTGVDIHQ HGATRFSLVKGHRIVQFAINQR LQAFINTQRQVVRSLAVSRRNI FNYATIAVFTHNALTRLPGKPI ETLLNALNPLTEHAARDLEDSP VRITAYIEDVDALAQAGADIIAI DGTDRPRPVPVETLLARIIII
24861	55229	A	24999	1	2457	

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24862	55230	A	25000	1	3019	MAALRQSFWSQLFDRVHIGLD FFDASINRIAAWVIGTRNMKKA LLRALLEPTAELRNWKRRITL RVWHCWKSRNRCRGRRSGBKCI ANVTIRQQDHQIETVFINQRLH ERMFPFVLFAERLSGDEDLGL KAPILEALNDLGYEKPSPIQAEC IPHLLNGRDVLGMAQTGSGKT AAFSLPLLQNLDPKAPQILVL APTRELA VQVAEAMTDFSKHM RGVNVVALYGGQRYDVQLRA LRQGPQIVVGTPGRLLD
24863	55231	A	25001	60	545	PSPFTAGASMAVERSTG\HEGE LVLETLVIDGDENT/CAGTRRSL RANA*CLFHPFRAGAELAEV WFCRYPHCGCEQNTTTEEQR TEWMVTESLADFLDPHDPGKT VEGYAPKRARNRNRAEDHRQ RLRHRTKKQTHGQRRRHRPE PAQRQPQTGTTD
24864	55232	A	25002	1410	1575	
24865	55233	A	25003	200	691	
24866	55234	A	25004	1336	2028	
24867	55235	A	25005	1	345	
24868	55236	A	25006	671	1204	RTSDKLPFCRRSRMENLARFLS TTLKQLRQQRGWSLSRLAEAT GVSKAMLGQIERNESPTVATL WKIATGLNVPFSTFISPPQSAT/P SLFPYDPQLCFEHLAIQMASGAI SESTPHEKGVIEHVVIDGQLD LCVDGEWHTLNCGEVRFAD VTHIYRNGGEQTVHFHSLIHYP RS
24869	55237	A	25007	2251	2466	
24870	55238	A	25008	181	626	WQNFDTCCGDMCLKLDAALR FQQEALNLRAQRQEVLAANIA NADTPGYQARDIDFASELKKV MQRGRDATSVVALTMTSTQHI PAQALTPSTAELQYRI PANPSL DGNTVDMDRERTQFADNSLQY QMSLSALSQIKGMMNVLQSG N
24871	55239	A	25009	57	278	
24872	55240	A	25010	171	532	KPVQFAIADGNNQPLALLNIHL PVMMLAIAHGPLLPAFPPELLV LFDD/PLSSRVLLINAFSGGSDT AMRRAGKGAPALLPELPITV VSPFLPQSSPRRKPIMSKRIPSAV NQRNPRQ
24873	55241	A	25011	1	648	

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24874	55242	A	25012	158	514	VLQLIKAVWTQRTQKPSWLHP VDSAPGLQMELPASPVPCTCTP QPLGGRWDWALWSRGWRLLR RLGPHRSPRRS*GSGLWPWPAQ KGAPIVQRWAKGLLKCHQSGS PGRGGAESERGL
24875	55243	A	25013	1	693	
24876	55244	A	25014	119	304	DRRRCAHKITVIPKRMTIAGIRL PPQTVNI*LGNFLRALIASTAGI MTAQMVVAHSPAPPPI
24877	55245	A	25015	361	540	
24878	55246	A	25016	191	446	AKRRLGVYDADCCSIDKTQSLS ACTTRNCGAYSKCLCGKYAKP VGGIPQPLQESHVR*CCNVMEL SPCSDFT**HPPGAVSQPQT
24879	55247	A	25017	1	2259	
24880	55248	A	25018	1	1170	
24881	55249	A	25019	3	1240	
24882	55250	A	25020	1	1259	MAGPRYPVSVQGAALVQIKRL QTFAFSVRWSDGSDTFVRRSW DEFRLKKTLLKETFPVEAGLLR RSDRVLPKLLGQASLDAPLLGR VGRTSRGLARLQLLETYSRLL ATAERVARSPITGFFAPQPLDL EPALPPGSRVILPTPEEQPLSRA AGRLSIHSLEAQLRCLQPFCTQ DTRDRPFQAQAQESLDVLLRHP SGWWLVENEDRQTAWFPAPYL EEAAPGQGREGGPSLGSSGPQF CASRAYESSRADELSVPAGARV RVLETSDRGWWLCRYAGAGPE ELDTSARNAGALTRRREIRDA TLLRLGLAYGPGGMSLREVT WAQLHDVATLSDVALLKRLRN AADWFGILAAQTLAVRAAVTG CTSGK/QIASCRWNSNQCARGR QR*MATTYGI*SSYLSVH*F*AN RQQR

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24883	55251	A	25021	803	2061	AKPAARGGILAAPVRDTLFLYF RLKKNQRQEGFINTYPWPKKP GIFYMCVPIKGANAQDVAAFC VTARGRQNCLWESIARGPALIN NRGAARGRCNDRVVEVDHGFA VLTFNFQGVSPGEFTQTVDHFD FAAFRHTSQTGQLIDHFLFPGT NLVDIGFRFAEDDTVFSQRFGF FDNFCYVQQCFRRDTADVQAN TAKGVVTFYDYGFTYWKV LDPGSEVVAEAGDGASIDLAH RLDIDVILLDLNMKGMSGLDTL NALRRDGVTAQIIILTVSDASSD VFALIDAGAAGYLLKDSDEVL LEAIRAGAKGSKVFSERNQYL REREMFGAEEDPFSVLTERELAD VLHELAQGLSNKQIASVLNISE QTVKVHIRNLLRKLNVRSRVA ATILFQSAAFRSRFRATSDNV
24884	55252	A	25022	1	1569	
24885	55253	A	25023	2151	2709	YLREASETARRQFTLPVILYNF RDLTGQDLTPETVTRLALQEN IVGIKDTIDSVGHLRTMINTVKS VRPSFSVFCGYDDHLLNTMLLG GDGAITASANFAPELSVGIYRA WREGDLATAATLNKKLLQLPA IYALETVPFVSLIKYSMQCVGLPV ETYCLPPILEASEEAKDKVHVL LTAQGILPV
24886	55254	B	25024	1	1201	

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24887	55255	A	25025	1	2209	MIGEIRDGETAEIAIKAAQTGHL VLSTLHTNSTCETLVRLQQMG VARWMLSSALTIVIAQRLVRK LCPHCRRQQGEPIHIPDNVWSP LPHWQAPGCVHCYHGFYGRTA LFEVLPITPVIRQLISANTDVESL ETHARQAGMRTLFEENGCLAVE QGLTTFEELIRVLGMPHGDGAA MDREENELGVSCIAPVPFDIHG RVPYAVSISLSTSRKQLYAGLP VWCDGSRFFAQKARAIKCKQW GYVGAKSRQRWLFYAYDRLRK TVVAHVFGERTMATLGRMLSL LSPFDVVIWMTDGVWPLYESRL KGKLVHISKRYTQRIERYNLNL RQHLARLGRKSLSFSSKVELHD KAAGGVPVLVRELLKAGLLHE DVNTVAGFGLSRYTLEPWLN GELDWREGAEKSLDSNVIASFE QPFSSHGGTKVLSGNLGRAVM KTSAPVENQVIEAPAVVFESQ HDVMPAFEAGLLDRDCVVVVR HQQPKANGMPELHKLMPLGV LLDRCFKIALVTDGRLSGASGK VPSAIHVTPEAYDGGLLAKVRD GDIIRVNGQTGELTLLVDEAEL AAREPHISELSAFTFGTGRGYS AFGVKCPFRKRALSDPCYAMR EVADFLINKGVDGLFYLGTTGGE FSQMNTAQRMALAEAAVTIVD GRVPVLIGVGSPSTDEAVKLAQ HAQAYGADGIVAINPYYWKVA
24888	55256	A	25026	1	3395	MSELPTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKYIPCSWLGRINIVKMAILAK VIYRFNAIPIKLPMFTFFKELEKT TLKFIWNQKGAASRSNPEPKNK LEDHITNSTIYRLSTKSCSVSGL KQTLLEAESEALTSYSHRVFSAW DFGLCGDVHVRLRQRILYELK GQVPALLDDGTLLTEGVAIM QYLADSVPRQLLAPVNSISRY KTIEWLNYIATELHKELKFSFH WSTTSHKGLGM

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24889	55257	A	25027	145	681	FNGATQRIFDARGKPSTYIGSIQ HVNADVDQRAATTLQFFIGKDP AGNAAATQGAGGGNVNLSQN AVGHLFTQLLRIERKTMVKVV GQHQAQFARGIDISRACYHMA ARFQCHQGMFVMKTVR*ADA NHIRFHCQQHGLRIVPHGCIPVF FCQRLPLGKAAVTDSYQFQIRC GCSSTKH
24890	55258	A	25028	696	953	LSGLCSVRRAYPGGRSCPGVP* FVGLVARRPGGG*GSCFVLLHP QRSCTGGCL*QPPFPAGAGRK IRECIRVGRSAGHAAGGET
24891	55259	A	25029	3	506	RGKPSTYIGSIQHVNADVDQRA TTLQFFIGKDPAGNAAATQGA GGGNVNLSQNAVGHFTQLLR ERKTMVKVVGQHLAQFARGID ISRACYHMAARFQCHQGMFVM KTVR*ADANHIFHCQQHGLRI VPHGCIPVFFCQRLPLGKAAVT DSYQFQIRCGCSSTKH
24892	55260	A	25030	291	560	
24893	55261	A	25031	63	404	
24894	55262	A	25032	660	1073	LSHECSFWLTNQLVSPRAQTVS GELQPAYAHGVLCRQYPSAFE KASETPQSSNPCSSYTIHPTVE NFQTCRNQHLKGLINAGRA GPSPGTGGWGELEVAARLQ GAWKRHLQSSRPPGQALFASPP *WTGSVQ
24895	55263	A	25033	272	511	GSDTALPSAIAAPLLAAMAWLP PRERGTLAH/QVLEHYQLAQLP VSAL/QMPLHCPPQAIAHQQL/ EQQALASLQNWGVFHV
24896	55264	A	25034	1	3300	
24897	55265	A	25035	1117	1376	PPPIGLTYSSASPLSLFCTVRKP FSRSCW*QTNSNPISCPVTP SE*L*PRRSIRLDSLAVRGFAS RIWLSSAITFPGSLA
24898	55266	A	25036	207	427	DEHLQQRKKPLFLNYGRTEQA SVK*RISWVQNPERSSLC*GILA A*NPMMSVSGL*LT*HCLSARRY ELVCQPK

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24899	55267	A	25037	2012	2547	LKFARPKLWGIFRNROYHHML ERVRSQAIDAPALDRGAALGAL MRLEHPNASAEAAALTMLAQLS PAQSGEALHGLLALARHQLAC QPAFIAGFSSHLNQLSEADFINA LPDLRAAMAWLPPRERGTLAH QVLEHYQLAQLPVSAQLMPLH CPPQAIAHHQQLEQQALASLQN WGVFHV
24900	55268	A	25038	1	150	DKASRGRSRQQS/CAVLQPLLVI PRQT/WVWSGPPANSSRPGEEG PDC*KEN
24901	55269	A	25039	1	150	DEASRGRNRQQS/CAVLQPLLVI IPRQT/WVWSGPPANSSRPAAAA PDC*KEN
24902	55270	A	25040	96	389	PCLSP*LYPSGVHKSTFIYGFYN T*PCTSQSLFWQHSC*GSITSSS YFYLLPEEGTGSNLCCSAASAG DTQANRVWSGPPANSSRPAAE GHDCWKEN
24903	55271	A	25041	1181	1364	VSLGNIKFRQTGAPLQGSFQRK EQSAIFAVLQPPVIPRQI/WVW SGTPADSSRPAAEGPDC*KEN* RVNRQPTWEKIFPIYPYDKGLI SRIYKELKQIYKKKIKPPHQKV GKG YVFSKEDIYAANRHMKKC SSSLAIREMQIKTTMRYHLTPA NRGIEIINCPFLDDAASCIDPTYS SNIFPPVNLSWGLPMKPKEVKI KRQKKEHLLKDRDFSQEPIMA LRTVILEILMEKEMDNSQRECIK DILTKHLVELSILARTFKNTQLP ERAIFQIKQYNSVSCGVSEWQL EEAQVFWAKKEQSLALSILKQ MIKKLDASCAANNPSLKLTYTE CLRVCGNWLAE TCLENPAVIM QTYLEKAVEVAGNYDGESSDE LRNGKMKAFSLARFSDTQYQ RIENYMKSSFEFNKQALLKRAK EEVGLLREHKIQTNRCPSGTLK PEEGTVSNLCCSAASTGDTQAN RVWSGTPADSSRPAAEGPDC

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24904	55272	A	25042	42	963	VQEGCVRPFCCRSAGVCWRST PDSVCLGITSGGCRTAKTAACS FLWKLCPRGTPARCQVECSYTR CLSVSLLGGVSQAGGTRVRDPL EEEVCPLAELERCAGRSVAVFR ASRQEHLRLLKLTSQPPLPPGA LSQGDGSFIYKPLTGVA AFLSD ALPKRRNLERQSGYSTFEELCF QKRTWGRDAVRISDLLGDHS HFGKCPISRLERAENMPVVSEL SAAGCSTEVDHVFVGIIWQKGK CSKYTAPSKSSVPVSSTRGHVHI TVQNPTLVFPVVGKLNIDSPIGDR NIPVLTAGNCKTLGDLRSFPHN
24905	55273	A	25043	98	352	
24906	55274	A	25044	3	414	PEEALCALAELERCAGRAAALF RAERQKRLRLLKLHPQPLPPG ALSQRDGS\LSISP*LGL\RLSFR DALPREQFYRLFTDRSDRVPEN SVTDVCHIESKMEPLRLGP/SNV SIMRPSLVCSFTTLVFISSNAQSS LVA
24907	55275	A	25045	2	1544	STTRGSPPQEARQYRHNQAYA YSIQGDGAEDDDERIVRFHTRL PVFMLPPTPRKTSWIVAPVLEV LARAIRHETEIQGIHTGTEDVPV SLFADDMIIYLDNLKDSSRKLL EVIRDFSKVSGYKINVHESVAL LYTNNDYAENHIKNSTPFTIGY VLAFVVMVIAVSCVRLLYAHN CTQHTSLKHKCQAWVTTVDA AAFMTQATREERRIAYSAPGGY FFHILEVLARTIRQEKEIQGIQTG KEEVKVSFLFADDMIIYLENLKD SSRKLEVIKEFSKVSGYKINVD SRGSPTDLVIYKEEIVFLIVPKA KKSKIKVLASDPLCYAATTWR MTIIAGLPVEYNDRFIRGIAVFA PWRKTPGIYHQSHDPLCYAATT WRMTIIAGLPVEYNDRFIRGIA VFAPWRKTPGIYHQSHGACLG RRSRTITVVDAQPVMDMDPT CSLFTTGQCLGEPDLLASARRL QFFSHQYSIAVLMANARGNSA\ LWDNYGGLIVRADRGSLLLVG

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24908	55276	A	25046	1	1228	MLQSNRTAASHSPSIQPAIQPAI QPASQLSIHNLWTQFRHSTKIPV EWNNGEVLNGRMPEDHHEWQ CNYQNVQQFIDE GNYTSGDNH TLRDPHYVEDKGHKYLVFEAN TGTENGYQGEESLFNKAYYGG GTNFFRKESQKLQQSAKKRDA ELANGALGIIELNNDYTLKKVM KPLITSNTRETVD FNGKHIHVR GAKLLFPAIQQPYPPLYFGGSSD VAQELAAEQVDLYLTWGEPPE LVKDFIEQVRAKAAAHGRKIRF GIRLHVIVRETND EAWQAAERL ISHLDDETIAKAQA AFARTDSV GQQRMAALHNGKRDNLEISPN LWAGVGLVRGGAGTALVGDG PTVAARINEYAALGIDSFVLSG YPHLEEAYRVGELLVPLLDVAI P/EIPQPQPLNPQGEALRKK
24909	55277	A	25047	1	1075	MTIKGEQAKKQLIAAALAQFGE YGMNATTREIAAQAGQNIAAIT YYFGSKEDLYLACAQWIADFIG EQFRPHAEAEERLFAQPQPDRA AIRELILRACRNMIKLLTQDDT VNLSKFISREQLSPTAAHYHLVH EQEAEHRFAMGELPDEVLEICQ RLAKLTEMRLRGLAELFLNDLSE KTGSHDIVRLHRLILQMNRLG MFEAQSKLWRLASLAQSSGAP VTKWATREEREGQLHLWFHCV GIRVSDQLERLLWRSIPHIVTS ATLRSLNSFSRLQEMSGLKEKA GDRFVA/SGFP/HLTTANRAKLL FPGCALSPLSTTKSSILPKWRPF SVSRWRAKNISVCWYCLPADG RCSAFSTM
24910	55278	A	25048	530	642	LKTLW/PAVQEPVPHRYHGATV FRIMQTIFIKICRLLL*GTAGHF VCGITACHAAEAHRLTVQPVP RILDQRRPAQLHSRQVTAIRQ PLHRRQAVRRDAVCQPLLVC VFRLMLPQQFPRLRVLHRLAFA GQAAFIVIAIVDGN TVAFQAQVA DVCQPAVAIILPLLLCEFSGQVI MITLRPPVKAALLYQPVRIVT EDAVAAVQEPVPHRYHGATVF RIMQTIFIKICRLLL
24911	55279	A	25049	1075	1479	

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24912	55280	A	25050	2	588	RWSSLTSSRYGFCRCPEADKE CLHVKSAAAGKKATNVGHYAG WLRTYSPHLAAHRVNFFFGINA HMDQQRGPGRMLISCNEACGSA CYSNHSYMRNDKHAVRRADSG RAEGGGPRVKSVIKAPVITPKK KPVVSTLKHVWMLAWVTCSP LTVLSPDGEMFDVMEKYAFSA WKWKRLRLAISQATFHALLPE KIG
24913	55281	A	25051	912	1169	
24914	55282	B	25052	1	1665	
24915	55283	A	25053	43	302	
24916	55284	B	25054	116	1534	
24917	55285	A	25055	1	1017	NVQQFIDEGNYTSGDNHTLRDP HYVEDKGHKYLVFEANTGTEN GYQGEESLFNKAYYGGGTNFF RKESQKLQQSAAKKRDAELANG ALGIIELNNDYTLKKVMKPLITS NTRETVDNFNGKHIHVRGAKLLF PAIQQPYPPLYFGGSSDVAQEL AAEQVDLYLTWGD PADLVNEI VEQVRAKAAAHGRKIRFGIRLH VIVRETND EAWQAAERLISHLD DETIAKAQAAFARTDSVGQQR MAALHNGKRDNLEISPNLWAG VGLVRGGAGTALVGDGPTVAA RINEYAALGIDSFVLSGYPHLEE AYRVGELLVPLLDVAIPÆIPQP QPLNPQGEALRKK

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24918	55286	A	25056	1	2677	MVLNRLLTGLFFGSTPPRCHYD LIGADPDRTIRSVRLYWRHSLN ELISMLPKFNKELTRKLFKLQE MLPFLNLHMSPERMLQRMDS KVVFTTTALMTGLSGAMASVL LLVMTVVFMLEVRHVYPYKMR FALNNPQIHIAGLHRALKGVSH YLALKTLLSLWTGVIVWLGLEL MGVQFALMWAVLAFLLNYVP NIGAVISAVPPMIQVLLFNGVY ECILVGALFLVVHVMVIGNILEPR MMGHR LGMSTMVDGVRVLKD GTDLNQTGSFYLAARPYAEKN GAFIQGVLATFSEADALTRSQR EQSIALLAKTMLPAPVIASLLE ISQPVSNHPIRTRLTA EVAALQQ QTADLFYENRLVPKKVDIRQRI WQPTRLEGKQFMSLNMFWFLP THGDGHYLGTEEGSRPVDHGY LQQIAQAADRLGYTGVL IPTGR SCEDAWLVAASMPVTQR LKF LVALRPSVTSPTVAARQAATLD RLSNGRALFNLVTGSDPQELAG DGVFLDHSEYEA SAFTQVW RRLQRETVD FNGKHIHVRGA KLLFPAIQPPALYFGGSSDV AQELAAEQVDLYLTWGEPP VKEKIEQVRAKAAAHGRKIRFG IRLHVIVRETND EAWQAERFV LSGYPHLEEA/YRVGELLFPLD VAIPE/IPQPQLNPQGEAVAND LSPRRTVAASGDQLLAGAVGFS
24919	55287	A	25057	114	372	
24920	55288	A	25058	2270	2760	TSPIPSQIRQYSIA/VGSTGNLGL SIGIMSARIGFKVT VHMSADAR AWKKAKLRSHGVT VVEYEQD YGVAVEEGRKAAQSDPNCFFID DENSRTLFLGYSV/AGQRLKAQ FAQQGRIVDADNPLFVYLPCGV GGGPGGVAFGLKLAFGDHVHC FFAEPHSPCMLL
24921	55289	B	25059	1	2460	
24922	55290	A	25060	1	993	

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24923	55291	A	25061	332	1349	ILYDSDIYRFSCRSGGHIPAVIY HLSAKRRTMENAKMNSLIAQY PLVKDLVALKETT/WGFIPATL HGVKGLPYVGLTEQDVQDAH\ ARLSRFAPYLAKAFPGKWLPTG GIIES\ELGALPAMQKRL\AEKEY QQPISGQLLLKKDLSHLPISGSIK ARGGIYEVLAHAEKLALEAGLL TLDDDYSKLLSPEFKQFFSQYSI AVGSTGNLGLSIGIMSARIGFKV TVHMSADARAWKKAKLRSHG VTVVEYEQDYGVAVEEGRKAA QSDPNCFFIDDENSRTLFLGYSV AGQRLK\AQFAQQGRIVDADNP LFVYLPCGVGGGPGGVAFGLK LAFGDRVHGLQA
24924	55292	A	25062	284	1494	RLSLPDMFPPVQQFPVSLHRAF YRYDKSAYYALRIAGIASRLNP RRFSPSILTPERRCVVTLRNDIR RDVLRHNQPRSTASTRQARRR MKSSCWHMPTTSKPQALSHTS NSPTTSISRPNWSYSNVCNRSRT MANLSGYNFAYLDEQTKRMIR RAILKAVAIPGYQVPFGGREMP MPYG\WGTGGIQLTAS\VIGESD VLKVIDQGADDTTNAVSI RNFF KRVTVNTTERTDDATVIQTRH RIPETPLTEDQIIIFQVPIPEPLRFI EPRETETRTMHALEEYGV MQV KLYEDIARFGHIATTYAYPVKV NGRYVMDPSPIPKFDNPKMDM MPALQLFGAGREKRIYAVPPFT RVESLDFDDHPFTVQQWDEPC AICGSTHSYLDEVVLDDAGNR MFVCSDDTY
24925	55293	A	25063	1	333	

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24926	55294	A	25064	1368	2451	PAHAAPGGGC/VRSLACRFLWN MRVTGKSYSTLRRVLSAIWNW RMMRCALTRALVAFRVR/SSVP LAAVLAIYARENGAGTMFEPE AAYDEDTSIMNDEEASADNET VMSVIDGDKPDHDDDDTHPDDE PPQPPRGGRPGLRGLTLRWFSV AAQRSDILDAVTLCLKVAALAT LIALVLGTLAAAALWRRDFFG KNAISLLLLLPIALPGIVTGLALL TAFKTINLEPGFFTIVVGHATFC VVVVFNNVIAFRFRRTSWSLVEA SMDLGANGWQTFRYVVLPLNLS SALLAGGMLAFALSFDEIIVTTF TAGHERTLPLWLLNQLGRPRD VPVTNVVALLVMLVTTLPILGA WWLTAKATYLEKLKV
24927	55295	A	25065	1	2072	MSEQLTDQVLVERVQKGDQKA FNLLVVRYQHKVASLSRYVP SGDVPDVVQEAFIKAYRELT RPYLLRAFYEWLLDNQLTPHIL VVDVTLPGVQVPMIYARDGQI VLNIAPRAVGNLELANDEVRFN ARFGGIPRQVSVPLAAVLAIYA RENGAGTMFEPEAAAYDEDTSI MNDEEASADNETVMSVIDGDK PDHDDDDTHPDDEPPQPPRGGRP ALRVVNVIVAIIFTTKPTAMGIA VRFTTAKGETPAIPDVTTTTAVI GETARASVVAKIGIITTA VKPFANISPATTSVPRFFGLPAS SSTLIGAIIGIGLTNALLTGSSV MDALNLREVTKIFSSLIVSPIVG LVIAGGLIFLLRRYWSGTTKRD RIHRIPEDRKKKKGKRKPPFWT RIALIVSAAGVAFSHGANDGQK GIGLVMLVLVGIAPAGFVVM NASGYEITRTRDAVTNFAARES EASVIRHSNRFIETINGGRRCSR GITLTLHKLRISAQPLIAVLNR LEQKKPVGLRYDPQAQSLVCLP TQTRTGWNLNGFEVGFPCVR LMIYGRSLEAQATASLAAATG YDSHIFDLFPASASQIDTDTAV ILLCHDLNRELPLVLAAREAKP FYLGAIGSYRTHTLRLQKLHEL GWSRQETTQIRAPVGIFPKARD AHTLALSVAEASVRLHQEE

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24928	55296	A	25066	2	332	AGYSTRTALAIIVNKPSSAIPPT SGLASRKRNPNASNDFNGCSRGC GGGGNAGRLNNGSKRSASTPP TIRPTNIAPPAASPKAPPARWN VSSSGSAPARRRANPETQLR
24929	55297	A	25067	1	3192	MNKKFKYKKSLLAAILSATLLA GCDGGGSGSSSDTPPVDSGTGS LPEVKPDPTPNPEPTPEPTPDPE PTPEPIPDPEP/TPE/PEPTPEPTD PEPTPEPIPDPEPNQNGAELSYN TEKTLTIRDSVFITYTENADGTIS LQDSNGRKATINLWQIDEANNT VALEGVSADGATKWQYNHNG ELVITGDNATVNNNGKTTVDG KDSTGTEINGNNGKVIQDGDLD VSGGGHGIDITGDSATVDNKG MTVTDPEM
24930	55298	A	25068	1078	1317	
24931	55299	A	25069	135	361	SCSMLAGLCG*GSSSSVSITTCF ALSASTIA*PREPQQALPV*PLA LPNSSQDGTMPKATSIFSSPLCT RCTRPP
24932	55300	A	25070	469	841	RWWKQYAAAGFQCMCATAVS NLTRPVAA*TAAIPESKSPVLPN SPASTVRRS*PVSTMPPIRPGDG DHDPRFKAPSGTPHQPPRAGHS L\RRHG*TENCTAA*GQLRTPG DNGTVMSADTITFP
24933	55301	B	25071	1	2922	
24934	55302	A	25072	1	3849	
24935	55303	A	25073	1	2280	
24936	55304	A	25074	672	1045	GAVLSINCRTLSPAAASGENVA TPP/VTSNNNTPIINKPKPLALAE ATGVIIAPKPPSSAAPMASPVTF CAVHKPLIRPNIASGVCVCSIVY CSNELTALNQPN SARQTTPKIH GIRPNRPMARN
24937	55305	A	25075	650	1465	RKPICAADICQLSASAGYSTRT ALAIVSGLASRKRNPNASNDFNG CSRGC GGGGNAGRLNNGSKVI NVPAAASP*FQATPPVASNKPPI MGEITDPRRTVMVIA PACIKF SRPTSAGVAANSAVTPSDAKKP SHKPSK*IASNDGSGSSALRHSP MKPMPQVPRASKITFLRS*RSA STPPTIRPTNIAPPVSVTESPTCQ VECVI IWICTGTATPSKPRDTIE MKRARNTARNAGCVSAGSSGS SAEVGSSNSKTS GSIASARA IET RCC

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24938	55306	A	25076	156	3092	LNRRWIANIAKLEAEQARKLK KTEKDSLKDEVLSLLPRAFSR FSQTMWIDTVNGLIMVDCAS AKKAEDTLAVLRKSLGSLPVVP LSMENPIELTLTEWVRSGSAAQ GFQLLDEAELKSLLDGGVIRA KKQDLTSEEITNHIEAGKVVTK LALDWQQRIQFVMCDDGSLKR LKFCDEL RDQNEIDREDFAQR FDADFILMTGELAALIQLNIEGL GGEAQHSGTGSLPEVKPDPTPN PEPTPEPTPDPEPTP
24939	55307	B	25077	61	2118	
24940	55308	A	25078	132	280	RRRAALPERSGPGLDHRRVRH/ GCHVLPTPVTLVKRRKVSRVD AQWKSSV
24941	55309	A	25079	1	1449	
24942	55310	B	25080	110	550	
24943	55311	A	25081	657	805	RRRAALPERSGPGLDHRRVRH/ GCHVLPTPVTLVKRRKVSRVD AQWKSSV
24944	55312	A	25082	756	938	
24945	55313	A	25083	781	1257	
24946	55314	B	25084	1	2727	
24947	55315	A	25085	1	2286	
24948	55316	A	25086	1161	2024	VRSAVWPCLQRDPDCHHNRCG TGGTSRPGPARNPRIEPTCVG\ RIRNLGVLLYDADAMERAAS ENEKDLYQRQLDVFLDPNDPK VIEQAIKDGIPLSVIEAAQSPV YKMAMEWKLALPLHPEYRTLP MVWYVPPLSPIQSAADAGELGS NGILPDVESLRIPVQYLANLLTA GDTKPVLRALKRMLAMRHYK RAETVDGKVDTRALEEVLTE AQAQEMYRYLAIANYEDRFVV PSSHRELAREAFPEKNGCGLPF GDGCHGSDTKFNLFNSRRIDAI D\KTEPHP
24949	55317	A	25087	664	1065	VAPEPHHGRKQLCREGLGVFH PTHHITHHLGVSLSLITIFDAQS VHGPDGCGQLDSVAVDNRLV LFHVFSGEAIFMDDLHLLHNGA FS*FSSPEQE*F/PRLWRR*CHPL *GFSQSPCSARGRLSPLRSEYIP

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24950	55318	A	25088	434	1663	PAGAFPDIANDFGEKSLLMPGG AVINGDF\NNVLPVDLVDPPQV QEFVDHAWYRYPNDQVGRHPF DGITDPWYNPGDVKGSDTNIQ QLNEQERYSWIKAPRWGNAM EVGPLARTLIAYHKGDAATVES VDRMMSALNPLSGIQSTLGRI LCRAHEAQWAADAIENNYSRN PSQGYSTVPRSPHPKVDPIITKP SGPAGPEMTRKQTQREDRPRSR PSMTTSPTSNLKPSVPAFKGVG YLDSEDRIGAADYQPTQDILR TRVKTTGIVETHFTFKNLHFRT EQASVHACYCRLFDVEGQRSE RKKWIHCFEDVTAIIFCVALSG YDQVLHEDETTVLSTRIVDGH YSDHSTIACPAFGTYTLLELKE ALSCSTLLHIPHQRSPAGSFLAD NLNCTQAAVIPEFGGF
24951	55319	A	25089	1	1247	MTFGGDQIFESLVYRSAFRHVY SRGSPWYLHTNSDLFVESKKE LIAEHILETFPWNLKGLTEIPWG DASGESGAVGLGVLA AVHYHP QRQSLMEKLALNKDAVVLVIS TEGDTDQVIERLESDAVRLYGI EDVVTNLDVLERMQPSESLLRA VLHTKHLMNPEVLAAARRIVC QVVEEIMARLAKEVRQAFSGV RDRRRRSFIPLARNFDFKSTLRA NLQHWHPQHGLYIESPRFNSR IKRQSEQWQLVLLVDQSGSMV DSVIHSAVMAACLWQL\PGIRT HLVAFDTSVVDLTADVADPVE LLMKVQLGGGTNIASAGEYGR QLIEQPAKSVIILVSDFYEGGSSS LLTHQVKKCVQSGIKVLGLGA LDSTATPCYDRDTAQAALGNVG AQIAALMPGELGSLAWENLLA

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24952	55320	A	25090	1	1691	MGAYLIRLLLLVIPTLWAIITINF FIVQIAPGGPVDQAIAAIEFGNA GVLPGAGGEGVRASHAQTGVG NISDSNYRGGRGLDPEVIAEITH RYGFDKPIHERYFKMLWDYIRF DFGDSLFRSASVLTLIKDSL PVS ITLGLCWYFVCRA CVVTHALSL WQSASIEVPRTSATAKARKTEP GRQTKRKVRSSQTVAARQRIAT LPHSMTVCNPGLFHSQMADAL AHRYYGFNIAEPWDNGSEAML QRDIGLKSESRLMAGKRCSC KGECGWSLDMQARVSTCFYVR LLCGTELEDHRICIIDTC DNKCG PQRRYVIKFRELCLVNSTVTLV DQEYELTVTDPELYDGSSQALA GISDLSSIYATCDPGYSCTDRVT LVDVRKRQSKTGPYKEIGRYGI DRNRSPLNPGFRGKPDLMPSQC IACGACACACPANALTIQTDDQ QNSRTWQLYMGRCIY/CDGRCE EVCPTRAIQ\LTNNFVLTVTNKA DLYTRATFHLQRC SRCERPFAP QKTIALAAELLAQQQNAPQNR EMLWAQASVCPECKQRATLIN DDTDVLLVAKEQL
24953	55321	A	25091	1	866	

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24954	55322	A	25092	338	2388	CVQEPLITVSWRLF AIPAGMKF SLFLRCLFCFH LAARYLVLLCQ LH/SQGIKVLDF TGVQSGPSCTQ MLAWFGADV I KIERPGVGDVT RHQLRDIPDI DALYFTMLNSNK RSIELNTKTA EGKEVMEKLIRE ADILVENFHP GAIDHMGFTWEH IQEINPRLIFG SIKGFDECSPYVN VKAYENVAQA AGGAASTTGF WDGPPLVSA AALGDSNTGMHL LIGLLAALLH RELNMTVAEIVE REEWAGFRARE TAALEAVTAP STVIATGGG IILTEFN RHFMQNN GIVVYLCAPV SVLED FRQRTME VLR LAF LSSGILEFFTSL SIALVA VYFGFSYLGE LDFGHYDTGVTL AAGFLALILA PEFFQPLRDLGTF YHAKAQAVGA ADSLKT FMETP LAHPQRGEA ELASTDPVTIEAE ELFITSPEGK TLAGPLNFTLPAG QRAVLVGRSGSGS RYCPYINHR NVR LGPIVTDV PWENSGDKSLP EATAQVISSGSGATKVEDGLGD LNKPVS NQNLVTGIDTPVYNAP SAGSAPFGVLADNMRYPI LHKL KDRLNQ TWYQIRIGDRLAYISA LDAQPDNGLSV LTYHHILRDEE NTRFRHTSTTT SVRAFNNQMA WLRDRGYATLS MVQLEGYVK NKINLPARA VVITFDDGLKSVS RYAYPVLKQYGMKATAFIVTT
24955	55323	A	25093	1810	2399	STFRNSDDEPYIVRPVAVAWRD YVPQPARNGLSNFTGNLEEP AV MVNYFLQGD PYQGMVHFTRFF HQHPSGLS* WVAGNIFQILCAN QPVRKRTRDNVQLLH SRGQRG VFRCSRRVLTGLVDRFGR TQTF HREAAGEFSGEITGVTDGAWR HFRLVLT TQAQRAEEARQQAIS GGTEPSAFPD TLPVDTEYVMNF
24956	55324	A	25094	1	577	MPVSTAVATVIKTKQVEFQLQ VGVPLYFRLRANPIKTILDNQK RLDSKGNIKRCRVPLIKEAEQIA WLQRKLGNAARVEDVHPISER PQYFSGDGKSGKIQTVC FEVIG CREEPDAAECHGDREQRRVFIR EDGFFVTKDLYPNRRA\GIISTT AVISPSQPPIIAPRVAQSSEPRSA AHALARAIRQSTTV

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24957	55325	A	25095	51	407	TCPIRAQRVETLYDRAYREVFG WNPRGPTGRPNARHTG*SKEG GRTEADETDAADSGQRGMEQR SEMDRKPTGTTGQRSEKPRRTL ECLALHETRIFLPQRKETHSSDA HDMPPGPPML
24958	55326	A	25096	3047	4131	AHSGQMYMPLSSCIRSCILGSV VMTCGFPQKSAGQKRQKTADC RKRPLQYTKSLSL/AVKAILAK GYDPVKWRKKDKVLDAVLKE LESGKYSDGDKHAFDQMLHSI GKQGGDPYLVMAFAAYVEA QKQVDVLYRDQEA WTRAILN TARCGSSMESKRLDNAALAAGI SPNYINAHGKPSISAETKRRL DAMHQRATKVA VTPVPNM VYTSGKKMPMVVEGSGEYSW LLTTEGTQYKGHVTGGKAFN LPTKLPEGYHTLTLTQDDQRAH CRVIVAPKRCYEPQALLNPKL WGACVQLYTLRSEKNWGIGDF GDLKAMLVDVAKRGGSFIGN PIHALYPAIRRAPAHTARLLAV
24959	55327	A	25097	524	697	AANWWWKSRNRW*KMTAM LDRIISHIIRTVRMSGSVAVTRAI AVPGLLLLLLIATA
24960	55328	A	25098	1	1938	
24961	55329	A	25099	33	226	

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24962	55330	A	25100	1	2314	MDRAGDGPPIRPLSGPTDVYGGT VYL RDPGPNH GKTTNGPLRFVP LLPFGQQVFPRVTPNFWNPVSS AALPARYMQTIENAAVWAQIG DKMVTVGNI RAGQIIAVEPTAA SYAFNCGFGKAFIDKGHLEPV QGRQKVEDGLGDLYKPLSNQN LVTWKDTPVYNAPSAGSAPFG VLADNL RYPILHKLKDRLNQT WYQIRIGDRLAYISALDAQPDN GLSVLTYHHILRDEENTRFRHT STTTSVRAFNNQMAWARVDRG YATLSMVQLEGYVKNKINNRA TEREELRVSKITVLILGVIAIILG VLFENQNI AFMVGLAFAIAASC NFPILLSMYWSKLTTRGAMMG GWLGLITAVVLMILGPTIWVQI LGHEKAIFPYEYPALFSITVAFL GIWFFSATDNSAEGAHLRPIRR KKVYRFNYLRSDGPYQGWVSE RLILRAISPGCSKLVHFPTLFDS LYRTL VKAGEKSGLLAPVLEKL ADYNENRQKIRSKLIQSLIYPC MLTTVAIGVVIILLTAVVPKITE QFVHMKQQLPLSTRILLGLSDT LQRTGPTLLATVFIVAVGFWL WLKRGNNRHRFHAMLLRVALI GPLICAINSARYLRTL SILQSSG VPLLDGMNLSTESLNNLEIRQR LANAAENVRQGNSIHL SLE/QT/ AIFPPMMLYMVASGEKSGQLG TLMGAQSHWECATVNAASRIR
24963	55331	A	25101	20	825	GFPRSRSCYASCTACRTH TYSA EK/QLTRALAKLARATSNEKLS QAFHAHLEETHGQIERIDQVVE SESNLKIKRMKCVAMEGLIEEA NEVIESTE KNEVRDAALIAAAQ KVEHYEIASYGT LATLAEQ LGY RKA AKLLKETLEEEKATDIKLT DLAINNSFYKEDIFMNR IEHYH DWLRDAHAMEKQAESMLESM ASRIDNYPELRARIEQHLSETKN QIVQLETILDRNDISRSVIKDSM SKMAALGQSTADTTKNSTHRQ SNTRQGN
24964	55332	A	25102	2	269	GIIGLHLQQQEAVAVAIVRGAT RMLFATLVAVAAGERHYQRW ADC*CAAAG*NVVTVESRTAA ASSHYVGVSRSQSHITAVISAPV DVPW

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24965	55333	A	25103	607	727	RQAVYRG**TAGQRANLLLLR RHSACALAAAGESQSSCPAG
24966	55334	A	25104	465	574	
24967	55335	A	25105	3	636	AHTSGFGDKSEK VSPQRKLHA MSRTFFWEN\LRCHGNLGSPTY AFQISAIDRVNFALVVGLHLRH DYRNEKLGRSGRHYQAPVGNR SSADGMHRDPCSQLDICCILLG AGSIYGLYRYIEPQLPDVATLK DVRLQIPMQIYSADGELIAQYG EKRRIPVTDGPVMWFPFIITTC VKGNFALNNQFREDMLNYNTE GIYGKNVNFENNKQT
24968	55336	A	25106	434	1205	
24969	55337	A	25107	368	532	
24970	55338	A	25108	722	934	
24971	55339	A	25109	82	420	ARADPHRAHTAGVNGVNARLR IFNADTCLRRHAQPCTGGEKDF RVRFRVFKLGSIRAEGEKLAQL QRR*NRRRIQGDRSQPNRD/RA VPEDLPSKERMPPGRTALTVNSR SEWT
24972	55340	A	25110	618	788	WYPCCRNWRYLAGGDSGFCR GERA*R*IASQSGVT*AVATVV FPSVLAGLRITGHS
24973	55341	A	25111	186	1198	QKTAVSTSITALTRWGS/SRA/G KRGAVLRSRVTRGKYHYPSSW RETSSSVQNAPLMRQIKEVFLAI RIEQLLTKDEILELYLNKIYLG RAYGVGAAAQVYFGKTV DQL TLNEMAVIAGLPKAPSTFNPLY SMDRAVARRNVVLSRMLDEG YITQQQFDQTRTEAINANYHAP EIAFSAPYLSEMVVRQEMYNRY GESAYEDGYRIYTTITRKVQQA AQQAVRNNVLDYDMRHAI RHYVLWKPTANIRARYKAQGI ELPAVVPAGPDNPMGHHAIRL AAYGGVYLLHGTNADFGIGMR VSSGCIRLRDDDIKTLFSQVTPG TKVNIINTPIKVSAEPN

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24974	55342	A	25112	1087	3289	RLRSCGAQKNTFCNAAAGCRW RTTLSKMGGLLIAADLQDPVQ DMEMWQFHPTGIAC/AGVLVT E/GCRGEGGYLLNKHGERFMER YAPNAKDLAGR DVVARSIMIEI REGRGCDGPWGP HAKLKL.DHL GKEVLESRLPGILELSRTFAHVD PVKEPIPIPTCHYMMGGIPTKV TGQALT VNEKGEDVVVPGI.FA VGEIACVSVHGANRLGGNSLI. DLVVFGSARQVLHLQESIAEQG ALRDASESDVEASLDRLNRWN NNRNGEDPV AIRKALQECMQH NFSVFREGDAMAKGLEQL.KVI RERLKNARLDATSEFNTQRVE CLELHNL METAYATAVYATFR TERRGAHSR\FDFPDRDDENWL CHSLYLPESMSMTRRS DYTL.FA DEGRDMMLLDALIQLKEKDPS LSFRRSREGVCGSDGLNMNG KNGLACITPISALNQP GKKIVIR PLPGLPVIRDLV VDMGQFYAQ YEKIKPYLLNNGQNPPAREIHLQ MPEQREKLDGLYECILCACCST SCPSFWWNPDKFIGPGSLLAGY RSGLIAGIPKCSARYLSGEKRSV AWQQIAAEIGISIDAQFNESLKG ISRDESLRRILQHGGKEGDFNSQ ERAQLAYRKNLLYVHSLRELT VNAVLPGIRSL LADLRAQQISV GLASVSLNAPTILAALELREFFT FCADASQLKNSKPGPGIFLAGC
24975	55343	A	25113	47	630	VGWETSFAQIRSRFLRIFCRAY SSTLFVSAANPTT*G/QMVF*CG NGAQHKNILLLYRSIHGGFHFQ RGHHINTFNKRWRR**NRT*YQ RDVRATTGSGGGDRKTHLAGA VIRDITHRIERFTRRAGGNIINV QMFQVVDGRKCATAISTVLDM FGDHFGRQKIASCQRWLAKTIR TVQQPICKNIVRKPGCHSLA
24976	55344	A	25114	731	829	

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24977	55345	A	25115	2	3744	RLPFKYPVKVKPLPAPFSKILLN SPAIPQLPITMNGSDFSLPEGPM NRWENIQLTPETRLAPRAYFFS YDSVAQARTFARETSSLFLPLS GQWNFHFFDHPLQVPEAFTSE LMADWGHITVPAMWQMEGHG KLQYTDEGFPPIDVPFVPSDNP TGAYQRIFTLSDGWQKGKQTLIK FDGVETYFEVYVNGQYVGFSG GSRLTAEFDISAMVKTDGNLLC VRVMQWADSTYEKQDMW.W SAGIFRDVYLVGKHLT
24978	55346	A	25116	1	2643	
24979	55347	A	25117	2499	2935	RSGGVACNCAVSASCMLVTVL PWLSPV/SVFGWLDGFFASLG VTALLAATPA\W*GVKT*CRPG RSP/SLTVRLGSVISPMIGGLLLA TGGVALLPLLSLPALPPPQPRE HPLKSLLAGFRFLLASPLVGGIA LLGGLLTMAAVRV
24980	55348	A	25118	676	1035	
24981	55349	A	25119	1	1842	
24982	55350	A	25120	1	1341	
24983	55351	A	25121	563	1360	PSVLRCRNWVI*SPYCISLPSRV SSLPFLVWIPVAR/CTAIGASRE AMLGVLVEPMLLLGLWVAAQ VAGSTNISNITDTVYHWPLSQSI PLVLALCACAFATFIEMGKLFP DLAEAEQELQEGPLSEYSGSGF GVMKWGISLKQLVVLQMFVG VFIPWGQMETFTAGGLLLALVI AIVKLVVGVLVIALFENSMARL RLDITPRDMIRIELDSWEQNGE AIKRTGQPLLLSLLVRNLLDNA VRYSPQGSVVDVTLNADNFIVR
24984	55352	A	25122	382	1424	VLENLSEPPNQHDIIELTVQR KEEETALSCRLVLRKLTETEPVI IFEGIEAPATLPADEVPGKDEN DNVEVSRWGTPREFDFEVRDH VTLGEMHSGLDFAAAVKLTGS RFVVMKGQIARMHRALSQFML DLHTEQHGYSYENYVPYLVNQD TLYGTGQLPKFAGDLFHTRPRH ECFRHIGSLGLATPLVTECMQW LFGIPHTLQLDAIITCWILNAIC VACGLQKGVRIASDVRSYLSFL MLGWVFIIVSGASFIMNYFTDS VGMLLMYLPRLMFYTDPIAKG GFPQGWTVFYWAWWVIYAIQ MSIFLARISRGRTVRELCFGMV QEFGCKSSTKIDNADFNQA

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24985	55353	A	25123	416	610	
24986	55354	A	25124	662	811	AQQLPGMSDWQNSQEQHQMK N*VRLFMRTSRKLMMDRLNVLIK LWSPNRT
24987	55355	B	25125	1	3264	
24988	55356	A	25126	489	3256	PRVFSSATRSLVAMRRWVYRV RRIQYRRTTQTAVFHSTHGNYR EGQPVGTLIDDRYKANENVEL VHYAQPLLNEADSLAKVMPSDI PLKQRRWLGLQMLEDIYSRA YAGEASQHLDAALARLRNEMD DPALHIADARYQCIAAICDVVS NTLTAEPSRFTTAVDKIVLNRFL GLPIFLFVMYLMFLLAINIGGAL QPLFDVGSVALFVHGIQWIGYT LHFPDWLTIFLAQGLGGGINTV LPLVPQIGMMYFLF
24989	55357	A	25127	779	910	
24990	55358	A	25128	2203	2665	ACWARISAAVIQRSGMPGVRV CGRIKSCSAVRCQRHVFCV WNGRQVTSAGTWTIAWYSG VMSSAISSWSRPAIPFSAEA*TIG KSSC/YVGRVEVNEQIEYLIHNP IRTRARAVNFVDNNRLQAVS KRFFGYEARLRHRAVKCVNHQ QH
24991	55359	A	25129	241	918	
24992	55360	A	25130	2142	2646	KGVCCTTNPAKIIVAILQAFHEI FGEGSCHIASVAVESGVPEQPF GSEETRAGARNRVANARLLP EADFWVAIEAGIDGDSTFSWVV IENASQRGEARSATLPLPAVILE KVREGEALGPVMSRYTGIDEIG RKEGAIGVFTAGKLTRASVYH QAVILALSPFHNAVY

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24993	55361	A	25131	473	1765	KAWLMTGIVRHWKGRAVPPA EQLEHLGNGKSFDSVAQAWD AAMADAKAEDTVLWGVEAFRI NAAVAKDDTQIHTHMCYCEFT DIMDSIAALDADVITIETSRSDM ELLESFEEFDYPNEIGPGVYDIH SPNVPSVEWIEALLKKAARKIP AERLWVNPDCGLKTRGWPETR AALANMVQAAQNLRGARAG CAADFAASARLAVGEALTNIA ATQIGDIKRIKLSANWMAAAG HPGEDAGLYEAVKAVGEELCP ALGLTIPVGKDSMSMKTRWQE GNEEREMTSPLSLVISAFARVE DVRHTITPQLSTEDNALLI.IDLG KGNNALGATALAQVYRQLGD KPADVRDVAQLKGFYDAIQAL VAQRKLLAYHDRSDGGLI.VTL AEMAVLSSLGQGGYFGHMI/D SGQYPGKSKTGQSTPDVAAQA RQSWIP
24994	55362	A	25132	602	2563	VVTTLTLVLTAVGSVLLLLFLV MKARMHAFLALMVVSMGAGL FSGMPLDKIAATMEKGMGGTL GFLAVVVALGAMFGEILHETG AVDQIAVKMLKSFGHSRAHYA IGLAGLVCALPLFFEVAIVLLIS VAFSMARHTGTNLVKLVIPLFA GVAAAAAFLVPGPAPMLLASQ MNADFGWMILIGLCAAIPGMII AGPLWGNFISRYVELHIPDDISE PHLGEGKMPSFGFSLSLILL.PI.V LVGLKTIAARFVPEGSTAYEWF EFIGHPFTAILVACLVAIYGLAM RQGM PKDKVMEICGHAL\QPA GIILLVIGAGGVFKQVLVDSGV GPALGEALTGMGLPIAITCFVL AAAVRIIQGSATVACLTAVGI.V MPVIEQLNYSKRRGFTGRVEEN FGVCKGPSKYHSQHDAINKQG REASDAHGTLLENLPLPLVPQPN AATALAALRASGLEVSNAIRD GASAILPGRFQIVSESPRVIFDV AHNPHAAEYLTGRMKALPKNG RVLAVIGMLHDKDIAGTLAWL KSVVDDWYCAPLEGPRGATAE QLEHLGNGKSFDSVAQAWDA AMADAKAEDTVLVCGSFHTVA HVMEVIDARRSGGKLCQMHN VQDKIDEEINQVHICLCLVLVIV SGCKYVGYSCLKCEHYYSLVR

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24995	55363	A	25133	518	1079	TQKETNKRCSPLVGWYPAFRM AHFLASERSCYQKLSNRKSHIP AVAGMVSGMTVANLL/EHSAG NVFKSGI*LALHLFIDRCF*YCG DGIGLFLGARYSRRGERKSART ISLFAQPGPVVNFRRHDVWQRR CVCLVQLRKAIHDVYFRFFGNG DDLYYDVSWARDGAGKYAKW QDFRTLFTTAHCSSD
24996	55364	A	25134	322	798	AQRAHVVGTVGKFDEDDADIL HHRHNHLAKVFGLRFLIAELE FIKFRHPLYQLGDAFTKKLFHIL ILVVGGSIFNHVMQRRHQRFI VEFHLGQNAGN\ATGCCVI*GSPL ERVCP*ASRATRYACRRRLIW SIARPAAKVSACCSAIATSK*RS KGQRVLLGNCHVEVAIREFT
24997	55365	A	25135	440	906	CGFSSLSRLPHSSYSAHHAVAPS VLMSASGRPRWSQWYRWIFRA GVYTGSIWFFICSTVRPHDASQ RRLSSLT/QVSQDFTFQPVNHQL WAGGKPTAGITVGKQ*W*PFIK FTVPGDDSGDGRGQGFLQIAAG KCRAQTFFSFCRAGKHDP CRT VS
24998	55366	A	25136	1059	1541	TAPLLRPGCRLS*SAAHPAAPA QSTNQCPGDRYAATLPAHHRH TNHG*IADVHQHISATPASAAS YAPGFLKDGA PASERHRETGC GRDRPH*PSLYKLSGILRPYQPA SFP*QQRVLSAR*LLPVQCSL HSQRCRRRPHRLHRSAPAPGIR ERRSRR

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24999	55367	A	25137	236	2211	QGALMSEDIFDAIIVGAGLAGS VAALVLAREGAQVLVIERGNS AGAKNVTGGRLYAHSLHIIPG FADSAPVERLITHEKLAFMTEK SAMTMDYCNGETSPSQRSYS VLRSKFDAWLMEQAEAGAQL ITGIRVDNLVQRDGKVVGV DGDVIEAKTVILADGVNSILAE KLGMAKRVKPTDVAVGVKELI ELPKSVIEDRFQLQGNQGAACL FAGSPTDGLMGGGFLYTNT LSLGLVCGLHHLHDAKKSVPQ MLEDFKQHPAV\APLIAGGKLV EYSAHVVPEAGINMLPELVGDL HERSLIFVASGPAGNSKETASD KLEEALPTKNWEVPGANWNT GNGIPSVPEKLKGMLSAPNYRR MVLPAPLQILLQNAKGGELLG AAGGQIAFNLGSAVGAYCGGM MLTLGLAYNYVALPAALLSFA AMSSLLLYGRYKRQQAADTPV LAKPLGQLDNAPFRCEVNLIR EEIGFNALDKFKRTTGALLQLQ QALHPALGADLCGSTGFAVLFI SPVRGNTHLRHLVHIFGTDLDL NRHSVRADHRGVQRLIAVRFW NGDIVFHAARTRLVQAVHLAQ HAITGVRIIDHHAESVDVHDRV KTLLFEHHFAVNRIKMLLPTTD AARYSRFLQTPDFRKNLLDHL
25000	55368	A	25138	1	1932	

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25001	55369	A	25139	1	1200	MAIPAFGLGTFRLKDDVVISSVI TALELGYRAIDTAQIYDNEAAV GQAIAESGVPRHELYITTKIWIE NLSKDKLIPSLKESLQKLRTDY VDLTLIHWSPNDEVSVVEFMQ ALLEAKKQGLTREIGISNFTIPL MEKAIAAVGAENIATNQIELSP YLQNRKVVAWAKQHGIHITSY MTLAYGKALKDEGIARIAAKH NATPAQVILAWAMGGGPVE\W RR*QIWRGFSSAS*RHELYITTK IWENLSKDKLIPSLKESLQKL TDYVDLTLIHWSPNDEVSVVEE FMQALLEAKKQGLTREIGISNF TIPLMEKAIAAVGAENIATNQIE LSPYLQNRKVVAWAKQHGIHI TSYMTLAYGKALKDEGIARIAA KH NATPAQVILAWAMGGGPVE MAKVADMAGIFVSKLKT FNAG VKGSTLGASGPQYVMVPKKHA DQLRESLASGEIAAVQSTLVAD NTPLNSRVYTVRSGDTLSSIASR LGVSTKDLQQWNKLRGSKLKP GQSLTIGAGSSAQR LANNSDSIT YRVRKGDLSLSIAKRHGVNIKD VMRWNSDTANLQPGDKLTLFV KNNNMPDS
25002	55370	A	25140	2237	2404	
25003	55371	A	25141	307	642	
25004	55372	A	25142	1449	2084	NAPRCAYY\VDVIAVTMPTTCC TLKISPLCRELILTLANRTTQR AEPMTRRLIQVLFDEL PQPQQ QLHLPVSSHPIRTMVEMMAK GPVEWGALGQWAGFFAMSER NLARLIVKETGLSFRQWRQQLQ LIMALQGLVKGDTVQKVAHTL GYDSTTA\FITMLRKPGKTAGTS LYHRRYGVSLSSAWGQVGPP RYCRQANSVLSDRFCVLI
25005	55373	A	25143	981	1103	
25006	55374	A	25144	222	379	
25007	55375	A	25145	1	1452	
25008	55376	A	25146	500	854	
25009	55377	A	25147	1	1374	
25010	55378	A	25148	2	167	
25011	55379	A	25149	781	1047	
25012	55380	A	25150	1	783	

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25013	55381	A	25151	442	857	LVKNPVKRMEIQKQNLTLFEYL DWWDVLFLLLESELLFANTWL AATSESVDDCSGVKPPSGKNGT *AMPSWAKASIIASSARCAML SFCTQTISAILRASATCVGVTL RPICFTRPCCISASTVRLASIDP SAGP
25014	55382	A	25152	3	4105	
25015	55383	A	25153	2	269	YKNPYIAAKIQPKTHDTLTPINP GRIKLWLMTKRPMWVVPERSN *IAARSLG*VGRM**P*QAGAE ATMYAGSTPIASATGTIAASAA A
25016	55384	A	25154	1	1370	MCPIEETASSFGGKPLSMVLVIQ MFMLLTGALIIILTKTNPASISK NEVFRSGMIAIVA VYGIAWMA ETMFAPACYGYIILPTYPSDLA AIQFDRSGTTHIGRFVINHSFILP GLIGVSVSCVFGWIFAAIKRDA AAGRAKENVIFHHFPFQSVKAD IATNPFKRPGGAFIRITQTFRTV QTFRLSAYRLDFAGDRLRISTPR AKMRTAFKKDHLRQRRRCIRQ RAPPARHNLVGAVALPATVAG VNFTFSNVPLDSSVLSSLLTDFS TAVGSIVMLAVIMGLMLAFDM GGPVNKVAYAFMLICVAQGVY TVVAIAAVGICIPPLGMGLATLI GRKNFSAEERETGKAALVMGC V\GVTEGAIPFAAADPLRVIPSI MVGSVGGAVTAALVGAQCYA GWGGLIVLPVVEGKLGYYIAAV AVGAVVTAVCVNVLKSLARKN GSSTDEKEDDLDFEIN
25017	55385	A	25155	1	789	MKIIAGITPADSGTLEIEGNNYV RLTPVHAHQGLGIYLPQEPLLP SLSIKENILFGLAKKQLSMQKM KNLLAALGCQFDLHSLAGSLD VADRQMVEILRGLMRDSRILIL DEPTASLTPAETERLFSRLQELL ATGVGIVFISHKLPEIRQIADRIS VMRDGTIALSGKTSELSTDDIIQ AITPAVREKSLSASQKLWLELP GNRPQHAAGTPVLTLENLTGE GFRNVSLTLNAGEILGLAG/TEL AETLYGLRTLRRGRIML
25018	55386	A	25156	1	1332	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
25019	55387	A	25157	1594	2220	MWVNPERGRAENTIIGGNATGI GTLNVQDQDSVITVRRLS*SAL KPGILVFKLTPAETERLFSRLQE LLATGVGIVFISHKLPEIRQIAD RISVMRDGTIAGTGFGDDFGFT HPLRQQRLPQHLVSFMRAAVQ QIFTLEIQRGVRPGCNVLAFGQ RGWTPGIVFQQVVELSLKFRIFL RTDKSFFQLAQRSRHQDLWHVH AAKLTGIGVK
25020	55388	A	25158	14	237	KTTSFPAKLFNACRISLLASAE/ CQSEYFISFNMDLADTVMFL* GAIRFSDLVNEQIQHTFLIPGETI CRLSEVV
25021	55389	A	25159	1	1506	
25022	55390	A	25160	158	639	SGC*PGRPSLN/GRLDVLSAWS VSILRLGGMALEGSIAIYIVINFC DVKPQRFRLSVPAASITVVLIQ QFVLHRRELRRKLALPAHHLVT FTWGNVSAVDETRQWMVIKPS GVEYDVMTADD\RWWR*PAV RWWKAANKPLPIHQRIWRSTV AMPKLAVLC
25023	55391	A	25161	2	2886	SVPTIIFFLPVLRFWRPGIQQA KKCHLFATGTQSRRLTLRQRT AKGIPQQRMTAKREEISIGILHV TPQQRRECRGDNRFRTARFRTP WRLLGHCVSAAVTGVLPAVAG SPLAYSDTDEFYPVAGGTMSQ HLPLVAAQPGIWMAEKLSELP AWSVAHYVELTGEVDSPLLAR AVVAGLAQADTLRMRFTEENG EVWQWVDDALTFELPEIDLRT NIDPHGTAQALMQADLPQDLR VDSGEPLVFHQTTLGFI
25024	55392	A	25162	1	1659	
25025	55393	B	25163	200	646	
25026	55394	A	25164	1	3197	MPHRQHGPQMTPSHQRTTINR DQREQQPIGTAAPQTRPQSAPY CEPHTRRRTLQPHNRGFTAKY TSTQARKYHMARPERSNDS PVHTRSRWNATQTERHTQH SPPSSLRTLRTNCTSHAH RHAQWHRVGLLDVKPTG TVFSPPKNALWADRVDTSRGR TTVEQDNHPNGGNVVGTPSDN NFWLETTGGDPNKEYYHHHHY NEDYCRYPLLIAEPLLFPSLSI KENILFGLAKKQLSMQMK
25027	55395	B	25165	1	2505	

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25028	55396	A	25166	159	1744	NSRISGLQQRRLMHIMVTQGGL MSLSIVHTRAALGVNAPPITVE VHISKGLPGLTMVGLPETTVKE ARDRV/RSAINSGYEYPAKKITI NLAPADLPKEGGRYDLPIAIAL LAASEQLTANKLDEYELVGEL ALTGALRGVPGAISSATEAIKSG RKIIVAKDNEDEVGLINGEGCLI ADHLQAVCAFLEGKHALERPK PTDAVSRALQHDLSDVIGQEQ GKRVLEITAAAGHNLLIGPPG TGKTMLASRJNGLLPDLSNEEA LESAILSLVNAESVQKLWRQR PFRSPHHSASLTAMVGGGAIPG PGEISLAHNGVLFDELPEFERR TLDALREPIESGQIHLSRTRAKI TYPARFQLVAAMNPSPTGHIYQ GNHNRCTPEQTLRYLNRLSGPF LDRFDLSLEIPLPPGILSKTVVP GESSATVKQRVMAARERQFKR QNKLNAWLDSPERQFCKLESE DAMWLEGTLIHLGLSIRAWQR LLKVARTIADIDQSDIITPTYCG KADARNSGNVCPSSRALVQR
25029	55397	A	25167	127	503	NRCLLLTLRCKGRNREEENDA EAESEKLKNKFNRPGRLSYGD RMFDIGVNLTSQFAKTVMML *RARLGLR*TTGLELRELLPLIP AEKL*/YETDAPYLLPRDLAKP STSRVHCVIEARAWFK
25030	55398	A	25168	3	406	

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25031	55399	A	25169	1	1252	MFDIGVNLTSQFAKDRDDVV ACAFDAGVNGLLITGTNLRESQ QAQKLARQYSSCWSTAGVHSH DSSQWQAATEEAIIELAAPQEV VAIGECGLDFNRNFSTPEEQER AFVAQLRIGADLNMPVFMHCR DAHERFMTLLEPQMVENYETLI FEAHSTDYQTPQSLRQLVIDHF AILKVGPALTFALREALFSLAAI EEELVPAKACSGLRQVLEDVM LDRPEYWQSHYHGDGNARRLA RGYSYSRVRYYWPDSQIDDA FAHLVRNLADSPIPLPLISQYLP LQYVKVRSGELQPTPRELIINHI QDILAHTTQPVKANKQNKKEEH AMPNIVLSRIDERLIHGQVGVQ WVGAFAGANLVLVANDEVAED PVQQNLMEMVLAEGIAVRFWT LQKVIDNIHRAADRQKILLVCK T*WKWYWQKGSPYVSGRCKK LSTTFIAPPIDRKSCWFKHPPIS
25032	55400	A	25170	2	319	YSSVFSLSASASFSSSRFRPLPT* KREKKTPISNRQYIGIANSVCEK TSGGVSNIPTTNAPTSTYGRFLR KSSGEVIPIQHSSTIATGTSKETP NAINSAITKLK
25033	55401	A	25171	1	1011	MIPHPKLEGDRSTQALPPTPVIR VTERRNLNWVGTTIGFVHTGK PLSFVYDMADIHKFDTVVPKAF EIARRNPGEPDREVRLACRDIFR SSKTLAKLIPLIEDVLAAGEIQPP APPEDAQPVAIPLPVSLGDAGH RRRRSGRVSEVSWRSGVMSFR RASGDKPQPKPKVMPEHAECPP AARRGQMMSICPCFALKIDIAD NKFFNGETSPLFSQSQAQKLARQ FHQKIAGYRPTPLCALDDLNL FGVKKILVKDESKRFGLNAFK MLGAPEKCHRRKNDF*RRSDRI VLIRL*REFSSHQKGLRDRPAH KAVLGDNQLFSGGTGAPVWPG FAKRAVMF/TPLKNLLSAISIFN AKHGHIWPRLAAGGHSACS GITFGFGCGLSPLARRKLMTP RQLTSDTRPDRLLRWPASPSET GSGMATGCASSGGAGGCISPA ASTSSISGINLANVLLLRKISLH AKRTSRSGSPGLRRAISKAFGTT VSNLMMSAIS
25034	55402	A	25172	1	510	
25035	55403	B	25173	1	1482	

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25036	55404	A	25174	704	1069	RLWQADCKENAGVDYYWTFF PQPTFVSTQKYYCHVDNSCYM NFDFAPEYHAHWRYGLLMVG ESQHGLGANAIQASQCFAAN QPLGADATFLQQIKGEIICFGLFI TGVFSIDSAFCDIT
25037	55405	A	25175	1	639	MARVWLCDFIPYGYLPTLNAM PESTRKQIMPWTRLGSLHTWN RTPNRRIGRYPSGLPPDSANRPR REPDACRSLHSPAKYRGPNPRD RLDHQQNGLPARGKDTPRSNK PSISQWTNTKPQPRHQPRGKKG HKSPAPEMPKPPQATSSTREQT KYGAAELWRSPWKTRYIELKA RGPMACVTISLNVCCAHLVRL VMVTLKQTDPIRNLGEMPSKSQ TKKAREVHLHSLHLQELAEQ EPPARKRKTQWAVSERK
25038	55406	A	25176	82	356	AQCEEYRVPQTLKRNPQCFDI SIRGGSQPCGIFSTPVRNTLQNM GQMGWL VAPG*WLWREIRKH NRWCACPRKPGRAGISMALRW GSGHA

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25039	55407	A	25177	1	2635	MNKS GKYL VWT VLSIMGAFAL GYIALNRGEQINALWIVVASVC IYLIAYRFYGLYIAKNVLA VDP TRMTPAVRHNDGLDYVPTDKK VLFGHHFAAIAGAGPLVGPVLA AQMGYLPGMIWLLAGVVLG AVQDFMVL FVSTRDGRSLGE LVKEEMGPTAGVIALVACFMI MVII L AVLAMIVVKAL THSPWG TYTVAFTIPLALFMGIYLR YLRP GRIGEVSVIGLVFLIFAIISGGWV AESPTWAPYFDFTG VQLTWML RLINRSIMMDFSLTEE QELLLAS IRELITT NFPEEYFR TCDQNGTY PREFMRALADNGISMLGVPEEF GGIPADYVTQMLALMEVSKCG APAF LITNGQCIHSMRRFGSAE QLRKTAESTLETGDPAYALALT EPGAGSDNNSATTTYTRKNGK VYINGQKTFITGAKEYPYMLVL ARDPQPKDPKKAFTLWWVDSS KPGIKINPLHKIGWHMLSTCEV YLDNV*TSVWRTCACPALRRA TQRYRRQSRAGNLRTSGEAI RR DMEWTS LRSEADWEKGDTIKQC ISAATSCVYGV TGEGILEGGDA QILREPLPGTKLGLLNWPVFDA LESRSTRERD GKPGEICGETA NILIRGPENRPLRRDPPGKP

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25040	55408	A	25178	216	1829	TVCRCHFVTTTKHIGRERNQRAR QCLVGKTTDTQQHNCDIRVGE QADHTRANHQHCTQRYDHLTG NDQVHTKPTLEQRRQVTTEDT TEVSKQHRHPGEHRDLFQRTLN ISADDQRRLLLELQNDNLNHNHNR IWLRLAAQPEDHIYGCGEQFSY FDLRGKPFPLWTSEQGVGRNK QTYVTWQADCKENAGGDYYW TFFPQPTFVSTQKYYCHVDNSC YMNFDFAPEYHELALWEDKA TLRFECADTYISLLEKLTALLGR QPELPDWIYDGVTLGIQGGTEV CQKKLDTMRNAGVKVNGIWA QDWSGIRMTSFGKRVMMWNWK WNSENYPQLDSRIKQWNQEGV QFLAYINPYVASDKDLCEEAAQ HGYLAKDASGGDYLVEFGEFY GGVVDLTNPEAYAWFKEVIKK NMIELGCGGWMADFGEYLPTD TYLHNGVSAEIMHNAWPALW AKCNYEAELETGKLGELFFMR AGST/GDIGGYTTTLFEMKRSKE LVLRWCDFAFTPMMRTHEGN RPGEHWAF/DGDAKHRHLAVY
25041	55409	A	25179	277	488	
25042	55410	B	25180	260	1500	
25043	55411	A	25181	1	764	MQEWGRYTILSGCCNSALKGD VCLLYGFRVAGRRQASE*TPGA YNRVPSKK*GFQLVLLPFSAN GKSPAY*RFSKSFAEDGEKDAG FPHYAEAGYDNGGRRSGAGT LLSR*I*TGAGRGAWRV*RLTG E*MAGKRT*VTASGYSQR*IMV FLWSLYRSYRL/GRVRQHNGPR YLPVLARNWKMSAWVAAAW QGLTDMKRKTMKIRSGSIVILA SGYAATAA*PLSGDRIFLP*PGK TG*RHGGTPSCAGFTGDY
25044	55412	B	25182	1	3117	
25045	55413	B	25183	270	388	
25046	55414	A	25184	2154	2279	
25047	55415	A	25185	614	623	RPNSGAR*GRGDKRSTQSPET VRLFCAGTFDQQPGNARWDD QYRCIRSGIVGVRAVLLGGDIL DTQPLPVELAETLGKSAE

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25048	55416	A	25186	1208	2813	CYGVAWPFDPTLKFEFWRYFT HALMHFSLMHILFNLLWWY LGGAVEKRLGSGKLIVITLISAL LSGYVQQKFSGPWFGGLSGVV YALMGYVWLRGERDPQSGIYL RRGVII FAPIWIVRRWFEMTPTQ WSNYFFENLFKYEWVQTRSPA GAIQFEAVDAPEIIPDPFDPSKK RKPTMLVTDLT LRFDPFEFEKISR RFLNDPQAFNEAFARAWFKLT HRDMGPKSRYIGPEVPKEDIW QDPLPQPIYNPTEQDIIDLKFAI ADSGLSVSELVSVAWASASTFR GGDKRGGANGARLAL\MPQTR TGDVTRRQPIRAL\PVLE\KIQKE SGKASLADIIVLP\GLFVVEKSA SAAGLSIHVPFAPGRVDARQDQ \TAIGMFELLEPIADGFRNYRAR LDVSTTESLLIDKAQQLTITAPE MTALVGGMRVLGANFDGSKN GVFTDRVGVLSNDFVNI.I.DM RYEWKATDESKELFEGRDRET GEVKFTASRADLVFGSNSVLRA VAEVYASSDAHEKFVKDFVAA WVKVMNLDRFDLL
25049	55417	A	25187	1520	1960	PVPLNFGWQRSTEV LICHVNSP STAAMTISPWRR**RRRTKQLS APLLLGVS AIGW/LTIILVAFMA WLLAKT/AFGRSFYATGDNI.QG AR/QLGVRTEAIRIVAFSL.NAER DFDDL RDSGPLIAMILFIMPTLS SISSRRLNPGVPSEI
25050	55418	A	25188	1155	1778	SASGGVMLKFIQNNREITALLA VLLFVLPGFLDRQYLSVQTLT MVYSSAQILILLAMGATI.VMLT RNIDVSVGSITGMCAVLI.GMIL NAGYSLPVACVATLLGLLAGF FNGVLVAWLK/IPAIVATI.GTL YRGLMSLWTGGHWFEGYPRIE KPSPPVAGVHHWCVTQIGGLRP AVAKRVGPDLPGDNKGAKGVL NTLDNYGVDGKCV

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25051	55419	A	25189	1	2227	MVTIAGIILGGLALVGLITYFGK WTYWLKEWLTSVDHKRLGIM YIIVAIVMLLRGFADAIMMRSQ QALASAGEAGFLPPHHYDQIFT AHGVIMIFFVAMPFVIGLMNLV VPLQIGARDVAFPLNLSFWF TVVGVILVNVSLGVGEFAQTG WLAYPPLSGIEYSPGVGVYWI WSLQLSGIAVAHIAAQNVAVLL ISSDLEEIELMADRYYVMHQGE ITHSALTERDINVETIMRVAFGD SQRGVMLKFIQNNREITALLAV VLLFVLPGLDRQYLSVQTLTM VYSSAQILILLAMGATLVMLTR NIDVSVGSITGMCVLLGMLLN AGYSLPVACVATLLLGLLAGFF NGVLVAWLKIPAIVATLGTGLV LYRSIMLLWTGGQWIEGLPAEL KQLSAPLLLGVSAIGWLTHLVA FMAWLLAKTAFGRSFYATGDN LQGARQLGVRTEAIRIVAFSLN GCMAALAGIVFASQIGFIPNQT GTGLEMKAIAACVLGGISLLGG SGAIIGAVLGAWFLTQIDSVLV LLRIPAWWNDFIAGLVLLAVLV FDGRLRCALERNLRRQKYARF MTPPPSVKPASSATSDFIGIVA LPLTMVIVSGGIDISFGSTIGLCA IALGVLFQSGVPMPLAILLTLL GALCGLINAGLIYTKVNPLVIT LGTLYLFAGSALMLSEEQKNTK KTRQREDKKKEKKKQRKREEK
25052	55420	A	25190	1055	1206	SFALFSSSSPRSRP*FASTKS*TL TTGQVLPSTNVRFLTGNWGPPV VATG
25053	55421	B	25191	1	1386	
25054	55422	A	25192	1	449	MQDPLLALLEDYNGDLEKQV PPAQSGPQPGKAGRDRPIVIML DPGHGGEDSGAVGKYKTREKD VVLQIARRLRSLIEKEGNMKVY MTRNEDIFIPLQVRV/AKAQKQ RADLFVSIHADAFSTRQPSGSSV FALSTKGGMCYSYRGSGCLQ
25055	55423	A	25193	1536	1941	STSNQNSTALCRRRGLVHCIDG ANDDDSVMVWPSGSRPWSAE PGAPQR/YAQLVVEDVELDLLH FIVFGDDVMLNVVLQGGQAFML ALGLVTNVGVLAHAHHHALVS GVPNDGGGTWVGGRVCVQQSQ LCTCWSHCQ

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25056	55424	A	25194	240	855	SRAGYAPAAAQKVASPYVRRE R*NQSD\PAVLTGIGERGK*LLS RDFFIAPLAGMIVEKRGAVHLA RWSVPVERKGQWQPAGLWAQ FFLADIVCPAATALPDTTAEDQ HIDHPAVVHVHVIPVVNTCAED NHRAPMRFMGGIGKFTGDGFNI LARHPGNLLTPGWGVRFDPSVI FRTVFIFQPAIEAVIRQYQIINAD HRTGVAID
25057	55425	A	25195	840	1157	QYAPTAQPARPADPFALPTVQA RLTPFCYLVAKGDWCVYRRSY SLWHSVASPRVRQSPRLGY*GY TANSPGILLAPLSLRGEMFLPQD APKSVPPYKRGKSVAIN
25058	55426	A	25196	1076	1339	LVCVASMPVEISTDASASSGVI VISSAMSGSWAETKRRLAMV* PEPLHLWAISIPTTSGRFTSSLIS PFPAR*YSPARYIPRVWRV
25059	55427	A	25197	2	118	
25060	55428	A	25198	1809	3145	ARHKQHA YGYR YRQSPRCYGV SGKKRGLRYYGSWLAISGSSRI TR/LLCMYLRFFIGVIGADIAN MGISAGAMWLLSVSQVSLAAV SQVVAVRVWPASSYTRVTVES NRQLKYKQFALSNERVVVDIE DVNLNSVLKGMAAQIRADDPFI KSARVGQFDPQTVRMVFELKP NVKPQLFALAPVAGFKERLVM DLYPANAQDMQDPLLALLEDY NKGDLKQVPPAQSGPQPGKA GRDRPIVIMLDPGHGGEDSGAV GKYKTREKDVVLQIARRLSLI EKEGNMKVYMTNEDIFIPLQV RVAKAQKQRADLFVSIHADAF TSRQPSGSSVFALSIQRGARPVG DRYVDHTMFDMVQSLTIADSL KFGKAVLNKLKGKINKLHKNQV EQAGFAVLKAPDIPSILVETAFI SNVEEERPNGQPGHPLDPATTM GTLIDCAHADSVQ
25061	55429	A	25199	1	277	
25062	55430	A	25200	902	1006	
25063	55431	A	25201	2	1265	
25064	55432	A	25202	409	525	
25065	55433	A	25203	91	431	NHKPGNIDVARRIQRGFAGDQI GHLRPVERQCSPDKRRFIAADG REIRGKQRAGHIFQLLSRCLLQI LNHCQRRAAHFRFQLSNQRHQ QLLPV/HYHAAEREYPAGACLV RWLL

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25066	55434	A	25204	3	71	
25067	55435	A	25205	1	1212	
25068	55436	A	25206	1	2786	MAAVIEQIRRAVLALVTGVVHP GDIPVVDIVWNATAAFIAVIII SLLDESFFEWAAALHVLRWG YGPGRLPFNRIGLIRTRRIRQR LLFGLVTFILLNRSQNP AQDIQ LLAFRARTGKQTAQFIHHLPRM VFTDKTGSSNGLAPQGQCSAQ GELILNEKLAKQLVTAANWVK MQSDEGEINPVDILRWPGVMA AQEQDLDAIAAEILAALDGTLD DFIVARETEGQSGLKRVYHSPG APDIREFTRDAIP
25069	55437	A	25207	5	402	EIFS VVWIIMTRGDVVTISRWR VSSSPLETWNKRWAKISPAPFS LLPISRLEKSEGDWLPETVISAF NMPSSL SLISSL*FKVRDV*HFF /RI*TLRGHYRVINWPNFNIVVS QGIGKRLANSWL VFTLFHRI
25070	55438	A	25208	48	219	PETCGHLWAYVWPSCAAV\GL YFKVHVVG*RSVTPVTDIVKLL EFTRLRLPGYTKSIE
25071	55439	A	25209	1	912	

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25072	55440	A	25210	1	1857	MRVCARACVTRTRMCMVYAH TCVCVRTYAYVRVRVRVHVRA RVRVCAYARTRVRNSLSILPFIQ LTLATPIHHIHQEEFNIRGIVPVL RRVKPDLAIGIDITPSCDTPDLH DYSEVRINQGVGITCLNYHGRG TLAGLITPPRLIRMLEQTALAHN IPVQREVAPGVITETGYIQLFLP GWEIGFSPLALLAFLCSTSPGF GDPDGLGVIA YQDTPVNAAT AISELNALAVKGVILTGDNPRA AAAIAGELGLEFKAGLLPEDKV KAVTELNQHAPLAMVGDGIND APAMKAAAIGIAMGSGTDVAL ETADAALTHNHLRGLVQMIEL ARATHANIRQNITIALGLKGIFL VTTLDDRVRVAGSAGRYGGDGA GDSECVKIVAQEIRQTDRNIER DRSPRPSGERVRVRGKGGIEAN QPLSTAFTNQITIRQSIRLFSNQF VFHKGISRVRVAGSSAISNVSPG CILRTPNCRRGFPISCTGEGKAA YGWQRDGGHAEYLLAEKDLI LLPDALSYEDGAFISCGVGTAY EGILRGEVSGSDNVLVVGLGPV GMMAMMLAKGRGAKRIIGVD MLPERLAMAKQLGVMDHGY*I LPDVY/V*IGVARVSWMNGRID SELTRVRAYAHTRTRARTCTR TRTRTYAYVRTHTHVCAYTHM RVRVRTHARAHTR
25073	55441	A	25211	3	1180	SKLGTRRSVVWA*SPSTSPTLW CSTFSAAGHSSMKRMNEFVDL LPAQQRMKGENWYRGTAADV TQNLDIIRRYKAEYVVILAGDHI YKQDYSRMLIDHVEKGARCTV ACMPVPIEEASAFGVMAVDEN DKIIEFVEKPANPPSMPNDPSKS LASMGIVYFDADYLYELLEEDD RDENSSHDFGKDLIPKITEAGLA YAHFPPLSCVQSDPDAEPYLAR CGYAGNFMESPRSGLRVSCM PAGPPLPLPAARSEAPKAAGTV ASVPSIAPARLRPVPDPVELVLV AAEFITPGDPTPRLHSGGFIDIR QIHHQTRSHLEGVKTGIRFLNH FSGNPQGGIAHVNGVARFQVK QCHQAWGQQYAARLRFQARGI SLQIAIHRVDIIHRFDVRQL
25074	55442	A	25212	16	543	
25075	55443	A	25213	1	3387	

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25076	55444	A	25214	1688	2234	LSVGKTFPVLVPAAFRKVSATG AAVPGTPSILALPSYSTTPFGVC TSASMNVPLVTLRIRTRVTGEV AAIKPFSMANAPTDSILPQLGV VSTRCS*TITCANR*STSARGSL ERLIMATLL/WVAGTFD*SVWF GHDTDVVTLYRFHEALCYSVT LRTPHRRVLRFKSQHPGELACFI SPVA
25077	55445	A	25215	905	4761	PPHNWMPSNATPGIAFVWCAY GAI/LPGDAPVPVDDYRKVVR KDTKGLIARWKYFWMSVIALG VAFALYLAGKDTPATQLVVPFF KDVMPQLGLFYILLAYFVIVGT GNAVNLTGDLGLAIMPTVFV AGGFALVAWATGNMNFASYL HIPYLRHAGELVIVCTAIVGAG LGFLWFNTYPAQVFMGDVGSL ALGGALGHIAVLLRQEFLLVIM GGVFVVETLSVILQVGSFKLRG QRIFRMAPIHHHYELKGWP
25078	55446	A	25216	269	1219	QTRTRRVQLQDLIEYVAIHQW/ FSDKHPVPFYSCIFDSDITNCYS WSISKDGYFIFGGAYPMKDGQT RFLTMKDKMSAFQFQFGKTVK SEKCTVLFPSRGQDFVCGKDNA FLIGEAAGFISASSLEGIIYALYS TDIPRSVLLKQPDKNPAYWRA TRLVCITLFGQIVNTICMAAPDL RKWIMLSPVAHKGHLEWVLH DMQILPVPRPSGCICSGSSTFFC NWGCPYDRPQWQLYPSMCLC VHIGPAPVRSEKVESKRAISKV DQDSAFRGCCRSNGNRNGGRKI VAVSLKKVSGAAKPCGHFRST RYRVAYSTIIN
25079	55447	A	25217	1	1158	
25080	55448	A	25218	1156	1899	LKLGIRYPQCQRLVTHSLDGISL PLHTAH*SQSNSAENTHRAISLK AVPPFFTAERRGVNAEEHRNGR LINGECRQRFNVLRVANGVRN VQFAKARDNDIASFRQIGFDT FQTEVAQHFTDFRVAGFAFAID DSDLLVRLHFTALDAANADNA NIAVVIELRNLHLERTVKVNV RRNVVNNRLVQRGHVFRHIFV VQTRDTVQRRSVNDREVQLLV GRVEVNEQIEYYADAFVIMLER LCKVLCCR
25081	55449	A	25219	1	2583	

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25082	55450	A	25220	278	787	TLLSATRQVYALLSTKPAFFSS HSSFSTSSRLISSRAASSMDVAF PIAFSASKTVSIKFFSR*KLLRNS HRPPFMVMRSIIRSPSNVFMAS* FRFVSIPTLRIDAVRRSTIWCSTT ARFSSRADAKFIKNVFQQAIPDS AAKWFFPVPGFPLNAKFVHPVI SSSAMDFA
25083	55451	A	25221	866	1144	
25084	55452	A	25222	19	1203	NWNLTPYASLTGFTADNPEYH LSNGMKSKSVDRSIYRELGAT LSYNMRLGNGMEVEPWKAA VRKEFVDDNRVKVNSDGNFVN YLSGRRGIYQAGKDLDRFKNL VLVHAARYAADLSYLPLMQEL EKRYEGKLRIQTVVSRETAAGS LTGRIPALIESGELESTIGLPMN KETSHVMLCGNPQMTRRLIPAS VEVYHDSLCKRKIWHGWEQHIT ARYLVGADGANSMVRRHLYP DHQIRKYVAIQQWFAEKHPVPF YSCIFDNSITNCYSWSISKDGYF IFCGAYPMKDGQTRFTTLKEK MSAFQFQFGKTVKSEKCTVLF SRWQDFVCGKDNAFLIGEAA FISASSLEGISYALDSTDILRSAL RKPIRTEQGANGAIRELEKFRPA
25085	55453	B	25223	58	359	
25086	55454	A	25224	4	329	
25087	55455	A	25225	1	1008	
25088	55456	A	25226	1	1335	

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25089	55457	A	25227	3	1886	HRLNITAENDCRRLHCSLRDLS SLLQAVGRLEAYFIGDVFAARF NDALTVVERLVKVTLYGSQIKL YNIETA VPSVLKPDLDVHAQS LAGGCRLSAHWLAQYCSEIHR QNTQQFVTLISTTMDAITPLIST KVQDKLLLSACHLLVSLATTVR PVFLISIPAVQKVFNRITDASAL RLVDKAQVLVCRALSNILLPLW PNLPENEQQWPVRSINHASLISA LSRDYRNLKPSAGAPQRKMPL DDTKLIHQTLQRLRKILWENIS G\ESTKSSTDFAYQFGCRESVQ VSLGLFPAF\IHQSDVTDEMLSF FLTFRGLRVQMGPVFPTEQIIQT FLNMFTRERQLAESILHEGSTGC RVVEKFLKILQVVVQEPGQVFK PFLPSIILCMEQVYPIAERPSP DVKAELFELLFRTLHHNWRYFF KSTVLASVQRGIA\EEQ MENEP QFSAIMQAFGQSFLQPDHILFK QNL F\YL\ETLNTKQKL\YHKKI FR\TAM\LFQFVNVLQ\VL\ VH KSHDLL\QE\EIGHRHSYNMASV DF\DGFFAAFLPEFLATSC\DGV\ DANQKSVLGRNF\KMDRLCPCL PGPAPHSPRMCTGWSTTCGLLT DSGNDSLAPWGLWKLLGPCLL PGGTRDFLLVAT

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25090	55458	A	25228	689	3053	VDCRMS/FSYIEKFTDFLRLFVS VHLRRIESYSQFPVVEFLTLLFK YTFHQPTHEGYFSCLDIWTFL DYLTSKIKSRLGDKAEVLNRYE DALVLLLTEVLNRIQFRYNQAQ LEEL\DDETLDDDQQTWQRY LRHSLEVVAKVMELLPTHAFST LFPVLQDN\EVYLGQQFIVTS GSGHRLNITAENDCRRLLHCSLR DLSSLLQAVGR\AEYFIGDVFA AR\FNDALTVVERLVKVTLYGS QIKLYNIETAVPSVLKPDLDIVH AQSLAALQAYSHWLAQYCSEV HRQNTQQFVTLISTTMDAITPLI STKVQDKLLLSACHLLVSLATT VRPVFLISIPAVQKVFNRTDAS ALRLVDKAQVLVCRALSNILL PWPNLPENEQQWPVRSINHASL ISALSRDYRNKPSAVAPQRKM PLDDTKLIHQTL\SVLEDIVENIS GESTKSROIQYQSLQESVQVSL ALFPFIHQSDVTDEMLSFFLT FRGLRVQMGVPFTEQIIQTFLN MFTREQLAESILHEGSTGCRVV EKFLKILQVVVQEPGQVFKPFL PSIHALCMEQVYPIAERPSPDVK AELFELLFRTLHHNWRYFFKST VLASVQRGIAEEQ MENEPQFSA IMQAFGQSFLQPDHFLFKQNL F YLETLNTKQKLYHKKIFRTAML FQFVNVLQVLVHKS HDLLQE EIGIAIYNMASVDFDGFFAAFLP
25091	55459	A	25229	1	853	MISVANEIAEAGFDPQGRSTED LLDLAESRVFKIAESRANKDEG PKNIADVLDATVARIEQLFQQP HDGVTGVNTGYDDLNNKKTAG LQPSDLIIVAARPSMGKTTFAM TLVENAGR\MLQDKP\VLIFSLE MPSEQIMMRSLASLSRVDQTKI RTGQLDDEDWARISGTMGILLE KRNIYIDDSSGLTPTEVRSRARR IAREHGGIGLIMIDYLP\LMRVP ALFDNRTLEIAEISRS\LKALAKE LNVPVVALSHLNRSLEQRAEER PGNSDLGESGSIEQDADLIL

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25092	55460	A	25230	206	1073	VKITSWLMSNSALPGTLKLLAL ILKCSTCVRVLPSELRLNER/Q GQLDSVGGFA/YLAEL/SKNTPS AANISA/YADIVRERAVVREMIS V/ANEIAEAGFDPQGRTS/EDLL DLAESRVFKIAES/RANKDEGR NPMFDDRGRGEPSDLIIVAAR PS/MGKTTFAMNLVENAAML/Q DKPVLIFSQTKI/RTGQLDDEDW ARISGT/MGILLEKRNIYIDDSSG L/TPTEVRSRARIAREH/GGIGL IMIDYLQLMRVP/ALSDNRTLEI AEISRLKHFEKLALICGCRNNG TTRYCKSLLA
25093	55461	B	25231	1	483	
25094	55462	B	25232	287	635	
25095	55463	A	25233	1	2469	MPSDISLASRLRATSRLFTDHR RQSDCMTAINRIPIVDDNVR RFETHCANNVRTALHLFADIHP DVVLMDIRMPEDMGKALKEM RSHETRTPVILMTAYA EVETAV EALRCGAFDYVIKPFDLDELNLI VQRALQLQSMKKEIRHLHQAL STSWQWGHILTNSPAMMDICK DTAKIALSQASVLISGESGTGKE LIARAIHYNRRRAKGAFIKVNC AALRESLLESELFGEKGLFER ANEGTLLLDEIGRM/PLVLQAIL RILQEREFERIG/GHQTIK/VDIAS LLAPTRLQAMVKEGTFREDLFY RLNVIHLILPPLRDRREDISLLA NHFLQKFSSNQDIIIDIPMA MSLLTAWSPGNIRELSNVIER AVVMNSGPIIFSEDLPPQIRQPV CNAGEVKTAPVGERNLKEEIKR VEKRIIMEVLEQQEGNRTRTAL MLGISRRALMYKLQEYDATGF FRDGMTIMVGGFMGIGTPSRLV EALLESQVRDLTLIANDTAFVD TGIGPLIVNGRVRKVIASHIGTN PETGRRMISGEMDVVLVPQGTL IEQIRCGGAGLGGFLNPTGVGT VVEERQTSIDTSTRKRPFELGRP SRNNDKGIRPRSGAGSEEYPR LHDSLKRLQTDYLDLYQVHWP LRPFYCFGKLGYSWTD SAPAVS QLD TLDALEYQRAGKIRYIGV SNETAFGVMRYLHLADKHDL
25096	55464	A	25234	1	891	
25097	55465	A	25235	1	1614	
25098	55466	A	25236	1	946	

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25099	55467	A	25237	1055	1474	NGVKS KPPPNHQTGSAPGFSAI KNRTFAWPTLPNTSCWANTML IGSRELGIRSSQSGPLLGVVRWC /CRCRG TQG/HSQGKDG/IPENGI RAYKFTSS*ASFRNSACFRQPSR IKPLRKATWLLCGLSTRHLITK RLSSPDWA
25100	55468	A	25238	2036	2743	DLIRQMPLLSRRVIPVIRVPVT GVLWKSFTPRITIFGH/ALIDQH SMIVAAQGLTPDHQLLLQIYDR ARVSASRIVHQAQIYGDAVVR YAFIEHRAEVDFASIEGNEENN VWLCDCAKVYGHQAQVKAGIEE DAIPTIHYSSQVAEYAIVEGNCV LKHHVLVGGNAVVRGGPILLD EHVVIQGESRITGAVIHENHVEL TDHAVVEAFDGDVHVVRGPKV INGEERITRTPLAGLL
25101	55469	A	25239	2234	2571	IMSSVDSSLVPLKAMVPSRITL IRSAIWRISG/RLMRDKNNTHAS SKQLLQATKQAFGRGKRGG RFIEDQNPRVAHQPAEDFHHLA IGDIQRSCQTMQIKLAAQRRQQ VLH
25102	55470	A	25240	659	1206	WKSTSN TAKAKPGSVMVDLR IPIRFGVMLSAA/FGDDVVDLIA QVDLVT TAVGPVVLERIAPIA KGQVKRKEQGHEsplNIACEN MVRGTTQLKGHVMNALPEDA KAWVEEHVGFVDSAVDRIVPP SASATNDPLEVTVETFEWIVD KTQFKGALPNIPGMELTDNLM AFVERKLFTLKH
25103	55471	A	25241	332	683	ALPGR*RHVHLPGSAYEWNDA EPAQESDELSLKMLTAICWLTA TA/STSLKI*R*KVALRCLVGRIR RLRRIRQQCQLLMRRSRVLSGR LSSV
25104	55472	A	25242	1	841	MVKVAGECRVRASAHLPGLNR STKNTE DRGANNQEGTNTQKT RGETNERLKKNEHRDLRLARY PAKENNKQGDKNKPRTYEKL GTVTHQEP PHHADQSPGLCLFR TSRAQVERGPTVLLLISQENQIE RYDS DNHSQNLCLRVPTVT TQ RRDYDIAERYRQKGIKLPARKE RLMTIAERLRQEGHQIGWQEG KLEGLHEQAIKIALRMLEQGF RDQGIA/RRASCQRQQRQSSLPT P/EHCCAISGATARKPAALPAAR IRRILVSIIRCTSGCPALSG

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25105	55473	A	25243	240	651	RCP PQSCLLAEGRWCG*K/CRK VSV*SNRYR*SRLSLGELL RAYS RNRDLP GF/SSGSARVLVATDV AARGLDIKSLELVVNFELAWEP EVNVHRIGRTARAGNSGLAISF CAPEEAQRANITSRPPHPAHIAS DHQSTP
25106	55474	A	25244	1455	1643	RDPHQICVAESVYLAA FVLLCA GLCVRRRSTTGARNAAAAC*N GLW*AEAQCPAYYVCPVVG
25107	55475	A	25245	549	641	
25108	55476	A	25246	1378	2084	PNFGYSPPASSCGQVSQNSS*LQ CSVSGRDKMLRTGPCARTVSSS YLMGVSF SRDA**DAR*VCACH NTIAALSASAERFTSCERASHSE ARSGCCNSVRVMSNNPCCPRSL IGVYDILFFQESTAKRCKRSLSG SGSACGKSRVRFTPYRPAR RTP LRSTTSPISAASFPSGWECNAAS TCSAALRSTAITSLPSLAKFRAS SPSNSQTPRTAGLTGSAASESSI PQPQAAANS
25109	55477	A	25247	1134	1428	GPCGCCSSNVARCASQTSSRFA AV/WHGAIGAR*LNADNRPLWI EITREHAELPGKTGRMETKQR RAITFTQRQNGFESHTPGAVFFS INNRCQFGDR
25110	55478	A	25248	96	535	RPQTTVQPALYVAEQSICSQPC* *FSTKCDRKPAAVLAPAGYAAL PVL FSSAKLDGSWLRWNSASG RRQNGSFSCAALASKRPASASS KLNSA**SLPSAVFAAPVRVAA SMIISGFCALASIRPSASTRRPSA SVFITSTFLPLR

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25111	55479	A	25249	1471	3026	SPLRSSVACRGWHRKNNRRGW CPRRGDPA RPVRDSLQHATAIII VATPGRLLDHLQKGTVSLDAL NTLVMDEADRMLDMGFSDAID DVIRFAPASRQTLLFSATWPEAI AAISGRVQRDPLAIEIDSTDALP PIEQQFYETSSKGKIPLLQRTL VFANGSARVLVATDVAARGLD IKSLELVVNFELAWDPEVHVHHR IGRTARAGNSGLAISFCAPEEAQ RANIISDMLQIKLNWQTPPANS SIATLEAEMATLCIDGGKKAKM RPGDVLGALTGDIGLDGADIGK IAVHPAHVYVAVRQAVAHKA WKQLQGGKIKGKTCRRCYPLA APYVRHCSLVGRAASHQALWH VAGFGLYALFRRTGGCRI.KCR YSGGLRLIRPTVAAGICRPDKT RKRRIRHRAPFPDAARAPYPAY RSQYNQFFFTNSDFSFIGPKPSM LQSMCPCPNQADVHFHGANV SASKSYLFTFRSLMMVTLSPCS QQIAVSIFNDQLVAFLCRFCVV PLRRHIHGQMYPPLSS
25112	55480	A	25250	196	330	
25113	55481	A	25251	62	617	NRRLPSGGDEMSAQVSLFIHH RI\SQFLVQESSCWTDWKFRD GVAQLRPKEVRF\TMR\TTVNGQ TRVPRKGVQPPTTWIFNDTKDQ LERRIARLETGMAWAEPPSRT RHLISNCQISETDIPNVFAVRVN YLLYRAQK\ERDETFYVGTRFD KVPPSE\DTTWRCLKRDIVLDQ AVITSHNLSVLF
25114	55482	A	25252	1	318	
25115	55483	A	25253	1	510	
25116	55484	A	25254	9	79	
25117	55485	A	25255	1	361	
25118	55486	A	25256	863	1245	FSQIYLARSALSSAHSSRSIPWQH SVWTLVRSVTNLETSANSALG NLWLRRATAHALKALS'PNFWR LAHLSLCLADEAFPSSRS/IIELW QQAGSFISSLATFCKSSFIPFSKE KEFRGIKVRMSSGNFI
25119	55487	A	25257	909	1069	GILSPFLVFVRVVKDQIVVDVW YYF*GLCSVPLVDISVLVPVPC FGYCSLVV
25120	55488	B	25258	1	1878	
25121	55489	A	25259	778	990	
25122	55490	A	25260	312	635	
25123	55491	A	25261	4047	4276	

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25124	55492	A	25262	1599	1776	WFPASSMSQPKKAQDQTDSP NSTRGTERSWYHSF*NGSKQ*K KSNSSPTHFMRPASS
25125	55493	A	25263	1	162	
25126	55494	A	25264	1	3370	MNRAPIPKQSKDKTSRETKNTS RSKTRERTDELEGLSTDNHAET QHAETNTDMTHERYTQIRNHT YKTTHQMEDKRTKPKREKEIH NRPDDMAKAGIPRSILNTGHPG KLMQTEVHHVRTLKIMLKVYS RALQEELQFSSKAIGRLFPCAD DLLETHSHFLAQTHERSGYVPL CVCATHTKIFYEFMEDVNTAYT KRHTMFRSLSMVSECLFSLING DDMFVTFAAMQAQQGRSSLV WLFSQLYLYSFISLFIYMV
25127	55495	B	25265	44	238	
25128	55496	A	25266	1	444	MPAEFITG\ERS\SEGFF\RIHAGI EQAISRGLAYAPYADLKNLDD KTIASFQQQLSDMGYKFQFITL AGIHSWFMNMFDLANAYAQG EGMKHYVEKVQQPEFAAKKD GYTFVSHQQEVGTGYFDKVTI IQGGTSSVTALTGSTEESSQF
25129	55497	A	25267	710	1395	DLPGISSKWVIAVIFGHLIVGIFI PPAIIVRAGIT*RQVR/WIAAHE GKAPQQIIMAHLDTYAPLSDA DADANLGGTLTQGMDDNAAG LGVTLQLAERLKNTPTEYGIRF VATSGEEEGKLGAENLLKRMS DTEKKNTLLVINLDNLIVGDKL YFNSGVQTLERHQRSFNTVKP WPDSVISNRPFAGNTGSVDDND EIQRNLNDTNYNRMWEYNNRG VGSKVVAEAKK
25130	55498	A	25268	2	2105	
25131	55499	A	25269	754	1133	RAANQHQTVDLTRLQTRIAQR LFNRHSQAIEQRQPQIFQFVLVK FAFPRFFLILPANVQWRLIATFC RFHTGVQGCQFTLVKRGPGDIR DYQQTNLDWYNSRNTTKLDES VNRV/HAAIQS*RQNGL
25132	55500	B	25270	1	1275	
25133	55501	C	25271	1	1167	

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25134	55502	A	25272	275	2424	SPAMHFQSFT/WQNNLDDNTIASFQQHLSDMGYKFQFITLAGIHSWWFNMFDLANAYAQQEGMKHYVEKVQQPEFAAAKDG YTFVSHQQEVGTGVYAASGNSLLLMRALNAAWPGIIDCSNHFARLRC SVWSIPRSDLRCAAARTGRLA CCPAGDEKPYPSLRSSRWSGRG ATALHYTAKRCRPDKTRQRRIRQPARALDVGCGVTALSDLPGCRTSQRCPDKTRQRRIRQPARALDVGCGVTALSDLRGAALHGLANRYRVNLFRLPDAMILSVLLRSCPFVFP LLRLRAGAPVGPYCTGTPITPLPSTR LFAPLPNRC SMAGMYGGLQVPVHPAIGARCLMRCLTHLIRPTMGTGSM AEEALGTSFKRLCAHYSRMRCWRILSGLRGARPNKIVCRIRRLRRIRPILRLRFPRHSRVVFIFGGGNPRRAKQRQTGEEVEKCHQPQHGTKCCARGGFAACLVFEYVVVFWTSLPDSFCRKSFPTRIRGSMVPSLWDFPPGVDGRKGKTSWNGVPGPCVTCGLGLTCPESPCCPGLSLGDGYPEKVS VGPPILKFQAILQAFHEIFGEGSCHIASVAVESGVPEQPFGEETRAGARNRVANARRLLPEADFWVAIEAGIDGDSTFSWVVIENASQRGEARSATLPLPAVILEKVREGEALGPVMSRYTGI DEIGRKEGAIGVFTAGKLTRAS
25135	55503	A	25273	1	441	
25136	55504	A	25274	3	2919	AVSNCSEGLSKEWGPRPCRHRGMEKLPLGGKFWPTQ/EAVRTVRARLQAD/VTGVPTVLVARTDADASDLITSDCDPYDSEFMTGERTSEGFFRTHAGIEQAISRLAYAPYADLVWCETSTPDLELARRAFQAIHAKYPGKLLAYNCSPSFNWQKNLDDKTIA SFQQQLSDMGYKFQFITLAGIHSWWFNMFDLANAYAQQEGMKHYVEKVQQPEFAAAKDG YTFVSHQQEVGTGYFDKVTTHIQGGTPDKAFT
25137	55505	A	25275	432	549	

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25138	55506	A	25276	652	2689	KFSVG YAVQN FNATVSTKQFQ VFSEQNTSSYFAEPQLDVNYYQ NDVVHFVTTTRDDMPEATRVHL EPTINLPLSNNWGSINTEAKLLA THYQQTNLDWYNSRNTTKLDE SVNRVMPQFKVDGRMVFERD MEMLAPGYTQTLEPRAQYLYV PYRDQSDIYNYDSSLLQSDYSG LFRDRTYGGLDRIASANQVITG VTSRIYDDAAVERFNISVGQIY YFTESRTGDDNITWENDDKTGS LVWAGDTYWRISERWGLRGGI QYDTRLDNVATSNSSIEYRRDE DRLVQLNYRYASPEYIQA TLPN VNH HITMEHLHMKTRTQQIEEL QKEWTQPRWEGITRPYSAEDV VKLRGSVNPECTLAQLGA AKM WRL LHGESKKGYINSLGALTG GQALQQAKAGIEAVYLSGWQV AADANLAASMPDQSLYPANS VPAVVERINNTFRRADQIQWSA GIEPGDPRYVDYFLPIVADAEA GFGGVLNAFELMKAMIEAGAA AVHFEDQLASVKMRHMGRIT ASDQPWLAYAPYADLVWCEPP PPDLELAR RFAQAIHAKYPGKL LAYNCSPSFNWQKNLDDKTIAS FQQQLSDMGYKFQFITLAGIHS MWFNMF DLANAYAQGEGMK HYVEKVQQPEFAAAKDG YTFV SHQQEVGTGYFDKVTTHIQGGT SSVTALTGSTEE SQF

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25139	55507	A	25277	134	1695	FPDPARLPVSVNHHITMEHLH MKTRTQQIEELQKEWTQPRWE GITRPYSAEDGGKLRGSVNPEC TLAQLGA AKMWRL LHGESKK GYINSLGALTGGQALQQA KAGI EAVYLSGWQVAADANLAASM YPDQSLYPANSVP AVVERINNT FRRADQI/QWSAGIEPGDPRYV DYFLPIVADAEAGFGGV LNAFE LMKAMIEAGAAAVHFEDQLAS VKKCGHMGGKVLVPTQEAIQK LVAARLAADVTGVP TLLVART DADAADLITSDCPYDSEFITGE RTSEGFFRTHAGIEQAISRGLAY APYADLVWCETSTPDLELARRF AQAIHAKYPGKLLAYNCSPSFN WQKNLDDKTIA SFQQQLSDMG YKFQFITLAGIHS MWFNMFDA KAYA QGEGMKHYVEKVQQPE FAAAKDG YTFVSHQQENRSSK QQQPLLT VGRIRSRIRQSVPR TGIGCASRRFNTAKPWADAVIS NRPFAGNTGSVDDNDEIQRNLN DTNYNRMWEYN NRGVGSKV AEAKK
25140	55508	A	25278	230	380	
25141	55509	A	25279	432	1247	PSQEPSVHGRWMA*KGHSRIV* WRAYD*THFNPVLKKS VSLGS NIRHMLAE EATTEELDGTGPV LV*PNRH*PAYWMRAYLNLKK MSCRSFRRKA*RW*CETQTVV HRDRVDQGNHFDVVARHYH LYAFLRKERQLIFFKFKYARIQY AG
25142	55510	A	25280	243	430	RRPSYSVLQRLPSAVLLPYY*R DWYHRTAGRRRDGNAGRQH NGCYPDPDRDGRRAFRNP
25143	55511	A	25281	10	638	SSVPTAGSRYNHLRAPRYSPLF ANYSMSDRCKPFG/LDSSTG* WFQ*RSVPLPILLPDTSRHQL*C SDPTRNGPA\QACQ RFFHIVERV ARVHHARFAATVTVDHVVIDQ RFFQICRT/PWCRLHRHHWRSSS GTR*TF*SPARHFCL LHNDSSYR STARPTCSGTDV PDRRCSDAHL CDHWSGSRAHADTDAECWCL NPQPAP SLLQCRR
25144	55512	A	25282	803	1622	
25145	55513	A	25283	498	686	RRPSYSVLQRLPSAVLLPYY*R DWYHRTAGRRRDGNAGRQH NGCYPDPDRDGRRAFRNP

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25146	55514	A	25284	1	2063	MKNFMENVLRYSDDKWKPD AKASMTVGTNLDTVYFKRHGQ VTGNSAADFHPDFAGISVEHL SSYGDLDPQEMPLLILNGFEYV TQVGNDPYAIPLRADTSKPKLT QQDVTDLIAYLNKGGSVLIMEN VMSNLKEESASGFVRLLDAAG LSMALNKSVVNDPQGYPNRV RQQRATGIWVYERYPAVDGAL PYTIDSKTGEVKWKYHVENKP DDKPKLEVASWLEDVDGNRKR NFSNDARANGTAAFTDCETQT VVHRDRVDQGHNHFDLVARH YHLYAFRQFDGTSHVSSTEVEL RTVAFEERSMTAAFIWTECTL QIRTCPQNPTGKVWTCDELEIM ADLCERHGVVRVISDEIHMDMV WGEQPHIPWSNVARGDWALLT SGSKSFNIPALTGAYGHIENSSSR DAYLSALKGRDGLSSPSVLALT AHIAAYQQGAPWLDALRIYLK DNLTYYADKMNAAPPELNWQIP QSTYLAWLDRPLNIDDNALQ KALMDQEKVAIMPGYTYGEEG RGFVRLNAGCPRSKLEKGVAG LINAIRAKKSATMIDTTLPLTDI HRHLDGNIRPQTILELGRQYNIS LPAQSLETIPHVQVIANEPDLV SFLTKLDWGVKVLASLDACRR VAFENIEDAARHGLHYVELRFS PGYMAMAHQLPVAGVVEAVID GVREGCRTFGVQAKLIGIM
25147	55515	A	25285	3	371	
25148	55516	A	25286	63	180	
25149	55517	A	25287	2	205	
25150	55518	A	25288	495	707	REFSSHQKGLRDRPAHKAVLG DNQLFSGGTGAPVWPG/HSENV VPVDPTMKRLPDDVNHPALDY YWRLSFA

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25151	55519	A	25289	1	1713	MTWAYSPSYGKPLSVPGIIGL MTRFGMDVTLAHPGYDLIPD VVEVAKNNAKASGGSFQVTS MEEAFKDADIVYPKSWAPYKV MEERTELLRANDHEGVK\APEK HCL\AQNAQHK\DWH\SIEMM EPTREGEAQNKHGRP\AEINGA SCKEGRSDQKAYDEKSRPDEM PIDDNVVLNKGDLQVSGDAR RVKTIADRIGFISIHSQVTDLLAF CAFFVIGLMIGMITFQFSTFSFG MGNAAGLLFAGIMLGFMRRANH PTFGYIPQGALSMVKEFGMLMF MAGEIQVDGNTIYPHIWKSCDG GVLFAKQYLLRLGIILYGFRLTF SQIADVGISGIIIDVLTLSSTFLL ACFLGQKVFGLDKHTSWLIGA GSSICGAAAVLATEPVVKAES KVTVAVATVVIFGTVAIFLYPAI YPLMSQWFSPETFGIYIGSVIEV GVDVPPNASLMIIENPERLGLAQ LHQLRGRVGRGAGLLTACCST KRRFLKAAPEVTRTGLADDRSS GLPLQTGYELASMQGLVDVVR LSPQGTDTFAMLD AFRANENG AAPLPLTANSDCNGYWRRLAG
25152	55520	A	25290	629	1054	ASGRFREVTG/MEEAFKDADI/V YPQSWAPYKVMEERTVLLRAN DHEGLK\LEKQCLAQNAQHK DWHCTEEMMELTRDGEALYM HCWPADISGVSCKEGEVTEGVF EKYRIATYKEASWKPYIIAAMI\ CPVNTPNQVHCSSNC
25153	55521	A	25291	235	780	
25154	55522	A	25292	1	2783	MTYRNNHQTGVAFLFQTKFCIE DGGVKTFDGYRVQTQSRHAEQ EVT DVEINLFCHPLCIIMQIFTV HISEELATFIVRGFRFRGKAAI GIFLVNNQLQPDIVHRGFCTEH HDVRGIKHFTLVEHVITGSGFG NTRFTFFRAGNNKMPRLGVGA GWAVLQGVVPRFGVWPLPEYP AYACGKFNGAIRAGDAAQLAA YAQAFIQLHGPI DAGDGVNRA DHRAGDFFEIVFQNLFAIADVD LAINHAVNAQLRLRNP

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25155	55523	A	25293	365	722	TSCLSALAIK/QQHLDEKKELG HLSAGARRLLIGIIVTF/CADSG VNLRYSAV*PAGAVYLPDAAV GGSADRTADAGALLGANVDCA VADRFLPLYLVALHLYAELGRS GQPGVRAYSALR
25156	55524	A	25294	798	1094	
25157	55525	A	25295	1	2780	MGIVASASVQAAEIYNKDGNK LDVYGKVKAMHYMSDNASKD GDQSYIRFGFKGETQINDQLTG YGRWEAEFAAWTDMFPEFGG DSSAQTDNFMKTRASGLATYR KTTSSAYRWPELNLQYHRCTS AARAMLLSGRPVMQINERTAV RRQMTVYLRVERIHEIDPLVSL SHSMSVIPIDVERPIAAAPCTPG LWRTKTPLRVPSTYPLRLPGRA RVVCHRTFRLHLCKDWVFMFS GLLIILVPLIVGYLIPLRQQA
25158	55526	A	25296	66	300	QSTYCDNPPVPVSRGL*P*RRSS STSSAGYQK*RYCQHRHDPASR IRTVQRTDSQRTVKKRFMLLP EASVPASEIC
25159	55527	A	25297	240	424	RCSRDEHDFQLIANLRIVVITFA TFA*CTA*LPLGNHSHVAAH*A G*GGAPVTAQVFVQHG
25160	55528	A	25298	1	1425	
25161	55529	A	25299	1	471	
25162	55530	A	25300	1269	1390	
25163	55531	A	25301	601	1119	VAAGAV*RGH*NVQLGKLFFV ASDLRINAIAGGVVVF*FIQGL TNAIGSGFNNARCRKPTGQVA ADGGRDAGFFTIANNQCTYAA GIFFQCSGEFVGIFQFAIAGIGR DTNLRQRFIAGRTDGIQHRFQ LRLNRPQRGVAEQCTIARTLAIS SRMAVYLVRLKVSISEL
25164	55532	A	25302	1666	1769	RLKRHPPLRPSWPPY*TGAAHVW HFSPLANWKPGI
25165	55533	A	25303	1	1970	MKDDIFFRTSGGGVTLSGGEVL MQAEFATRLQLRLWGVSCA IETAGDAPASKLLPLAKLCDEV LFDLKIMDATQARDVVKMNLPL RVLENLRLLVSEGVNVIPRLPLI PGFTLSRENMQQALDVLPLNIR QIHLPPFHQYGEPKYRLLGKTW SMKEVPAPSSADVATMREMAE RAGLQVTVGEKWGVSIETQGA LGTENRLADEDIRRADVALLIT DIELAGAERFEHCRYVQCISIYA FLREPQRVMSAVREV

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25166	55534	A	25304	2804	3494	LSLAEWKCLNPSQRALYREVM LENYRNLEAVGQLQPQSTQRIP *GRICNGDRLTSQKGLDL\VLEA LPGLL\EQGGQLALLGAGDPVL QEGFLAAAAEYPGQVGVIQY HEAFSHRIMGGADVILVPNRFE PCGLTQLYGLKYGTLPVRRTG GLADTVSDCSLENLADGVASG FVFEDSNAWSLLRAIRRAFVLW SRPSLWRFVQRQAMAMDFSW Q\VAAKSYRELYYRLK
25167	55535	A	25305	1	1306	
25168	55536	A	25306	818	1658	
25169	55537	A	25307	2611	2826	
25170	55538	A	25308	609	2359	PPPKIAPVWGCRKKSLPARSKI FCFALFFPFFLNGEIILPESPCPF WTLFRNDGGKKRDPLAPVYLL GKLTISPGPICPDMIGVLFSTV RREVAHIGNVQHRFCGPLFLKL VEFIDFILTIDIAAIRQYLVVICE VDQRINQIAIATRIFRGTGYTAAD LRQHLMQLLIFLVVTRFVALT TQFFHFFRCVTKNKDIVSTDMI QHLDIRTVQRTDSQRTVKKRLH VTGAGSFRPCQRNLFRQICRRN DQLRQANAVVRDEHDFQLIAN LRIVVDHFRYVIDQMNNVLRH VIGRSRLTAKNIHARYPLRIRVG LDAVIAEMASGLDPFWRPDVV HAHDWHAGLAPAYLAARGRP AKSEFTVHNLAYQGMFYAHH MNDIQLPWSFFNIHGLEFNQIS FLKAGLYYADHITAVSPTYARE ITEPQFAYGMEGLLQQRHRERR LFGVLNGVDEKIWSPETDLLLA SRYTRDTLEDKAENKRQLQNA\ MGLKVDDKVPLFAVVSRLTSQ KGLDLVLEALPGLLEQGGQLA LLGAGDPVLQEGFLAAAAEYP GQVGVIQYHEAFSHRIMGGA DVILVPSRFPCGLTQLYGLKY GTLPLVRRTGGLADTVSDCSLE NLADGVASGFVFEDSNAWSLL RAIRRAFVL/WSRAGSWRYSAR AIRCCRKVSLLRRQRNTPVRWAF RLAITKHFRIALWAARTSFWCP

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25171	55539	A	25309	1028	1632	TSASAGTARNFSSNFAVRTTGH STSEATSSSRLSLKSALPPILRAA SSASALMFFVIGDDFPTSRRISG Y*SALSMVNSGSPIKRWPRITRS D*MPRMVAGMTLSP/MQQGHG VHRTHEVHV VAPQRISFGIGSF AREVATIFGSSASVFRR*YRNH APNLLTLCVCLQRRTPGQSPG RVFRFHPVAFRQVSYFQRQTP IA
25172	55540	A	25310	1	336	
25173	55541	A	25311	1889	2257	SAMTFPRSRRISGY*SALSMVN SGSPIKRWPRITRSD*MPRMVA GMTLSPSSRVTVCTGR TKCTSL APQRISFGIGSFAREVATRRPYR DIKEGFSQREAALLPQSLRVPQ TGTWSAAGAQA
25174	55542	B	25312	1	735	
25175	55543	A	25313	1439	1744	SAMTFPRSRRISGY*SALSMVN SGSPIKRWPRITRSD*MPRMVA GMTLSPMQQGHVPWQLMVVL WNTRQRWKPSSPDRYVNRAMS LPSRKGEMLKPAPCRK
25176	55544	A	25314	1209	1972	SAMTFPRSRRISGY*SALSMVN SGSPIKRWPRITRSD*MPRMVA GMTLSPSSRVTVCTGR TKCTSL APQRISFGIGSFAREVATIFGSSA SV/HFALHMGAIQQPFAFIGSQT LSLVNGNTATTQPQSAALLGLP SASNAWAIAGPRFSISRSGCASA RLATFSARRRGASKPLNGCLLR ATLSSPKDFQQGSTGGMLWGV LRHSPKFSITADGREFTLHWP TGAMTG CATPGEYVWYSTFDN TQRKYPHPWEL

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25177	55545	A	25315	1	1521	METQHRLMRTFQPRQQDWTY ALWGGVKLRWLFFFLWGLFLF AGEEELGIRQTRTNDFLVTGDN LLRIFRFDVGNEDKVRQQFAVV RIHREVFLVTFHGVNQRFSRHR EEFLFEFCVTPKLNEGTTQRTN NRGIAVLNTGHRHPDLVAAVE QQLQQFTHTAYQIVPYESYVTL AEKINALAPVSGQAKT\FFHP GSETG\ENGVKMVRAHTGTPG V\IAFRGG\FHGRTYMTMALTG KVAPYKIGFGPFP\GSVYHVPYP SDLHGISTQDSL\DAIERLFKSDI EAKQVAAIIFEPVQEGGFNVA PKELVAAIRRLCDEHGIVMIAD EVQSGFARTGKLFAMDHYADK PDLMTMAKSLAGGMPLSGVVG NANIMDAPAPGGLGGTYAGNP LAVAAAHAVLNIIDKESLCERA NQLGQRLKNTLIDAKESVPAIA AVRGLGSMIAVEFNDPQTGEPS AAIAQKIQQRALAQGLLLTTCG AYGNVIRFLYPLTIPDAQFDAA
25178	55546	A	25316	114	187	RSTISSVRYGDDAFKP*RQAWN VL
25179	55547	A	25317	105	317	YLFFLSRFNHWISMEKKLGLSA LTALVLSSISWARVFSVCRKIW RQLPARQHCCSSAGVLLALAFYC WPLPC
25180	55548	A	25318	1	593	
25181	55549	A	25319	1	729	
25182	55550	A	25320	1	1005	
25183	55551	A	25321	1	1361	
25184	55552	B	25322	1	2793	
25185	55553	A	25323	27	255	

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25186	55554	A	25324	225	1408	RIIYMHMESQKIWFALSTPMEIR NECCLPSHSSPKMYLGACLF\PL SSSWGIDDRDDLRTIHRMIDN GHAARLAGFYHRWFRYSPCEW RDYLAELNEQQQAYAQFVAST AECCGEGGIKAWDYVRMGFLS RMGVLNNWLSEEESLWIQSRIH LRALRYYSNWRQYFAGYTFGR QYWQSPEDDHLPLLREFLAQET TDVDIIRRAYLALLPSFHTETDP QGFKQLRHAYDDALPIAQSPAK SVLQPEEYEWALLVEMLGLL HRIAMVQLSPAALGNDMAAIE LRMRELARTIPTDIQLYYQTLL IGRKELPYRTCQLHACTSADTP LRKIPRFSGKLHFYAFCPNIYSS YHSAAKYGGSCQPGSTAHLRG YYWRWHFIAGLCHADPHAHSS
25187	55555	A	25325	230	380	
25188	55556	A	25326	432	1247	PSQEPSVHGRWMA*KGHSRIV* WRAYD*THFNPVLKKS SVSLGS NIRHMLAEEATTELDGTGPV LV*PNRH*PAYWMRAYLNLKK MSCRSFRRKA*RW*CETQTVV HRDRVDQGNHFDVVARHYH LYAFLRKERQLIFFKFKYARIQY AG
25189	55557	A	25327	10	638	SSVPTAGSRYNHLRAPRYSPLF ANYSMSDRCKPFG/LDSSTG* WFQ*RSVPLPILLPDTSRHQL*C SDPTRNGPA/QACQRFHIVERV ARVHHARFAATVTVDHVVIDQ RFFQICRT/PWCRLHRHHWRSSS GTR*TF*SPARHFCLLHNDSSYR STARPTCSGTDVPDRRCSDAHL CDHWSGSRAHADTDAECWCL NPQPAPSLQCR
25190	55558	A	25328	803	1622	
25191	55559	A	25329	498	686	RRPSYSVLQRLPSAVLLPYY*R DWYHRTAGRRRDGNAGRQHQ NGCYPDPDRDGRSAFRNP

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25192	55560	A	25330	1	2063	MKNFMENVLRLYLSDDKWKPD AKASMTVGTNLDTVYFKRHGQ VTGNSAADFDFPDFAGISVEHL SSYGDLDPQEMPLLILNGFEYV TQVGNDPYAIPLRADTSKPKLT QQDVTDLIAYLNKGGSVLIMEN VMSNLKEESASGFVRLDAAG LSMALNKSVMNNDPQGYPNRV RQQRATGIWVYERYPAVDGAL PYTIDSKTGEVKWKYHVENKP DDKPKLEVASWLEDVDGNRKR NFSNDARANGTAAFTDCETQT VVHRDRVDQGHNHFDLVARII YHLYAFRQFDGTSHVSSTEVEL RTVAFEERSMTAAFISWTECTL QIRTCPQNPTGKVWTCDELEIM ADLCERHGVVISDEIHMDMV WGEQPHIPWSNVARGDWALLT SGSKSFNIPALTGAYGIIENSSSR DAYLSALKGRDGLSSPSVLAIT AHIAAYQQGAPWLDALRIYLK DNLTYYADKMNAAFPELNWQIP QSTYLAWDLRPLNIDDNALQ KALIDQEKVAIMPGYTYGEEG RGFVRLNAGCPRSKLEKGVAG LINAIRAKKSATMIDTTLPLTDI HRHLDGNIRPQTILELGRQYNIS LPAQSLETLPVHVQVIANEPDLV SFLTCLDWGVKVLASLDACRR VAFENIEDAARHGLHYVELRFS PGYMAMAHQLPVAGVVEAVID GVREGCRTFGVQAKLIGIM
25193	55561	A	25331	2	696	FLLLLWEIRKSSQQTPTMENA AEMAQLVAGVDEVGRGPLVG AVVTAAVILDPARPIAGLNDK KLSEK'RRLLALYEEIKEKALSW LGRAEPPEIDELNHLATMLAM QRAVVGLHIAPEYVLIDGNRCP KLPMAMPAMVVKGDSRVPEISA ASILAKVTRDAEMAALDIVFPQ YGFAQHKGYPATFHLEKLAEH GATEHRRSFGPVKRA/LGTCV LILVSRLSKPESEDVL
25194	55562	A	25332	2	63	
25195	55563	B	25333	138	182	
25196	55564	A	25334	356	706	ISDICAPNMVSAIHAIPYTATMA IIPERKTSFFEIDAGLVLRHISA PVSSINI*ITSTIDSGLPKDGRRS ESAPRRATTAIAPRKIHASQIL VVHHRSLVGCRMRRWRVLSID
25197	55565	A	25335	1746	1873	

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25198	55566	A	25336	1998	3626	PKAARMANVPNNTTGTAMVGI SVA/RHILQEQIHQHNGFE QRFYHFVNRKLDEWRGVIRVE NLHS/AAGRMAVIPPVLP*WLS RYREHSRRLPA*SPKGAAASNP EVIARTLRKLKNQPELSEDTIKK AVESLSLELVLT AHPTEITRRTL IHKMVEVNACLKQLDNKDIAD YEHNQLMRRLRQLIAQSWHTD EIRKL RSPVDEAKWGLCRNGK TACGKAYQITWAE LNKQLEEK PRLQTCPSKFGSGPFYF
25199	55567	A	25337	243	604	PRFPFLPPATSSVQTAMTDG*N ECERICVGYLRYSSHSAPDARR QRARTHVPVGKHALPALTKAT HPSWWWQCAAMAEDSTDARQ LKA*WGVNGFLDLRSATMDGR LYPVAMCLLPATK
25200	55568	A	25338	1	3287	MPITLRRSVEKEQLIEIANTIMPF GKYKGRRLIDLPEEYLLWFARK DEFPAEARYTHIDLHVPAPLLV MFTLDTRQSACDRNPHLPIHVC SSWTSPKCAPRLWTRALLPRTR TPPYATGTTIGSRASWFVTFPD ASFYRRKAPRQEFHTSLQGRSL YVRQRSTANPTEITRRTLIHKM VEVNACLKQLDNKDIADYEHN QLMRRLRQLIAQSWHTDEIRKL RPSPEAIMTEQEKTSAVVEETR EAVDTSQPVAT
25201	55569	A	25339	1	1425	
25202	55570	A	25340	534	1391	RQKRRLYQTYWYKQQPRYLPP EHRQRHRHQSAGVSRPYSGYG EVRPLSQYQPEWQCWEPDVEW VRQPPQDAITDPDFCFYQPGM TFEQFVREFAEWFSQKRPAAM MIGIRADESYNRFVAIASLNKQ RFADDKPWTGGHSWYIYPIYD WKVADIWTWYANHQSCLNPL YNLMYQAGVPLRHMRICEPFG PEQRQGL\WLYHVIEPDRWAA MCAR\VS\GYTTGGLYPGQARG AAV*TEALKPSGLPQVCALNQC LLSVHRYAGHV RQERC DGADG RPAVHERRQLL
25203	55571	A	25341	786	1009	HHSHEQQFQWPVGASGVDRW AVYLHQICPLTQFQY/WCRARQ EGIMSSPGQQVG FIA*VTSSFS R*KGRRVSSA
25204	55572	A	25342	2446	2970	
25205	55573	A	25343	1	2184	

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25206	55574	A	25344	706	1293	IHRLIRRIHQIIDLRIWQRTVEI HGAPVRFIQMAAWTHIAVLLT* QLRQLRAGFQRNSWAIFYFFHH RKQYIFHFDLRRFPVIMHALFC AVQRCADLMAHRRQKRRFCLA GFFCFRPLSVFYHQFLQFSCTR FDLRRQLFAVAIQCMNIAFAAA LVDFDLPDIDGITLARQLAQQY PSLVLIGFSAHVIDETLQ
25207	55575	A	25345	1	3291	
25208	55576	A	25346	882	1019	
25209	55577	A	25347	1	2265	
25210	55578	A	25348	284	535	CVAASVTGTRVLIPLLNNRSR RSPVRYVSKGNWWGSVCNCAS NNSNSVSR*SLPPMRSHAWRKV RRIMRQLPLERPRPGFTI
25211	55579	A	25349	131	208	LVRWLLSPGW*WKISPIISICLFP V
25212	55580	A	25350	1	3108	MDSQDKYFEATQTVYEWCGV ATQLLAAYILLFDEYNEKKASA QKDILIKVLDDGITKLNEAQKS LLVSSQSFNNASGKLLALDSQL TNDFSEKSSYFQSQVDKIRKEA YAGAAAGVVAGPFGLIISYSIA AGVVEGKLIPELKNKLKSVQNF FTTLSNTVKQANKDIDAACKLKL TTEIAAIGEIKTETETTRFYVDY DDLMLSLLKEAAKKMINTCNE YQKRHGKKTTFETYLTDPVTF RERLQMSIYKIPLPL
25213	55581	A	25351	1	296	
25214	55582	A	25352	3	164	VGD/NVGTTARWGIFALIIVETL AWFTVVASLFAQHKQRAENLI QRLHLLWSFNP
25215	55583	B	25353	91	990	
25216	55584	A	25354	1146	1881	RCGVQ\WTMYIRAVFVNLNTP KSIVFLAALFPQFIMPQQPQLM QYIVLGVTIVVDIIVMIGYATL AQRIALWIKGPKQMKALNKIFG SLFMLHNAFAWFYLGAFLLTVI AWFLLGNAQKMPQTTLQWGIL VFLGVVASGIGYFMWNYGATQ VDAGTLGIMNNMHVSAGLLVN LAIWHQQPHWPTFITGALVILA SLWVHPNKRFRNWLTLAIAH GGVQSAPQAFAGGFGHHQTLA LKTLYYPMR
25217	55585	A	25355	1943	2287	
25218	55586	A	25356	44	274	

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25219	55587	A	25357	876	1400	YRHVRDSPGNDRLFETWRSAG CAARLLRQSGETRLLSRVVRDY GGRWPVSLLDGLPDATWCTEK RGGFCTCATGRAGEKWAQFPEA SLLTNLANPKAIIYFGSVFSLFV GDNVGTARWGIFALIIVETLA WFTVVASLFALPQMRRGYQRL AKWIDGFAGALFAGFGIHLISR
25220	55588	A	25358	1	1428	
25221	55589	A	25359	421	797	IIFPFLFHLCNQLSHLLQYAVV NAPVRRILPIQLLWQQLIQPGEK LKSIRRAIQHIGQTQIIGMFIQMP IMIAYETDRATGDGI/WAAH*T HEYPCHVRQSQFHENHDDVQE NPPHPWKIQTPGH
25222	55590	A	25360	1	1320	
25223	55591	A	25361	1	1251	MLLSIITVAFRNLEGIVKTHASL AHLAQVEDISFEWIVVDGGSND GTREYLENLNGIFNLRVSEPD NGIYDAMNKGIAAQQGFALF LNSGDIFHQNAANFVRKLKMQ KDNVMITGDALLDFGDGHKIK RSANRAGLFLIGYGAFRIIVEFF RQPDAQFTGAWVQYISMGQILS IPMIVAGTMKQYLELMQKVLD EGTQKNDRGTGTLSIFGHQMR FNLQDGFPLVTTKRCHLRSIIIIE LLWFLQGD TNIA YLHENNVTI WDEWADENGDLGPVYVITTVL NQLKNDPDSRRIIVSAWNVGE/ LDKMALAPCHAFFQFYVPDGK LSCQLYQRSCDVFLGLPFNIAS YALLVHMMAQQCDLEVGDV WTGGDTHLYSNHMDQTHLQLS REPRPLPKLIKRKPESIFYRFE
25224	55592	A	25362	3	1327	

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25225	55593	A	25363	1	2443	MGLIGFVLTALWIKLIHNPTDH PRMSAEELKFISENGAVVDMD HKKPGSAAASGPKLHYIKQLLS NRMMLGVFFGQYFINTITWFFL TWFPIYLVQEKGMSILKVGLVA SIPALCGFAGGVLGGVFS DYLI KRGLSLTLARKLPIVLGMLLAS TIILCN YTNNTTLVVMLMALAF FGKGFGALGWPVISDTAPKEIV GLCGGVFN VFGNVASIVTPLVI GYLVSELHSFNAALVFVGCSAL MTMSARSATGHECVF WCNGKP RRLAMRLIYWCAAAPTGDVVQ KLTGKWALIANSHRAGQPTRN VNEEVGQRLLEEMEWYDNYL NMGKTD RSANPSPGNKKGGLA NVVEKALGSIKSGKSAIVEVL SPGQRPTKRGLIYAATPASDFV CGTQQV ASGITVQVFTTGRGTP YGLMAVP/SH*NGNWKITASVT SIQPNTNELPNCCMNGVSTANT TSKSSLVICALR

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25226	55594	A	25364	I	2701	TFFLPAGEILPPRLEPQITLPVGS RRIISIAVTDLPEPESPHLRSGLG WASLCCFMVICKFFPAAEGLIL AAVCDSSRGSRWYWCNGNRRYG YASDLLVRCGATVMFSEVTEV RDAIHLLTPRAVNEEVGKRLLE EMEWYDNYLNMGKTDRSANP SPGNKKGGLGKRGSSKALWLP LLQIQARKQVGLRVYTVACVL RTGTWYDRNGPDWRVPGQLN MGNPAPETGRYRLAHPATPHD PRTTPDHPHIKPHAPTNPQPD LPTHHHHTDTRDPSPPPRTRT PRQSTHTTTPHPTTTTRHTDIHP PHTNPPPPTRVLTRQLHHTNRI IPHRTHTTTCRRNHHNQMNNTT PPPPHTPQITHRHHTTLREQTQ KHRQHIHGTQHHTTRKPPTPTT RQYNTSIVGTIGGGMVERKVIE ESLQALQERKPRLFHGRMARN GADAVGSDCGGAMSVFISVHG MRPRLVLIGAGHVNRRAIAQSAA LLGFDIAVADIYRESLNPELFPP STLLHAESFGAAVEALDIRPD NFVLIATNNQDREALDKLIEQPI AWLGLLASRRKVQLFLRQLRE KGVAEEHIALRHAPVGYNIGAE TPQEIAIRVLAELQVKNNAPGG LMMKPSHPSGHQMVVIRGAGD IASGVALRLYHAGFNVMILEVE KPTVIRCTVAFQAQAVFDGEMT VEGVTARLATSSAEAMKLTER

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25227	55595	A	25365	1	1262	MGNWHLSPCAPAPGHSCFLF VGTSRILAVPGHTGSKAINKA ALLLESYMSQALKNLLTLLNLE KIEEGLFRGQSEDLGLRQVFAG QVGG\QPLYAAKEPVPEERLVH SFHSYFLRPGDSKKPIHYDVETL RDVAPVLDVAGATPPTIRHQRV TALVAPKNGSRDVRSCAGKMP TDGSIRAVLLPFQVSTIGGVTYE RVGTKDQGPQCPHVQRSSAVR PGPEAAPGDNSYPPEYEDRSTCG MQAPDASYSANPDLSFTWSPCL SEDALHTSPLYCTTPTSGGEAF KGLASDLVPHEDKMVLQNGKC FTSPRHTEWAVLRAGHALARG RNLLDLAAGGMAWVSMSECE PGPGTICSRDLQGTECLRMIL PPKDPVTRGSTHCNAGTKRELE EFSSQVTLTALIQPLMQVSAQF RAADGAP
25228	55596	A	25366	2	176	
25229	55597	A	25367	1	1395	MRESLELPRDLLNCCDQANANS DMDMKSRRLRGYQMEIMNLLG AGVKDFELESDDLVLVEEISK QQSIHDVAWLLLVAFVYICEQR NDLKSELIFTREAEHKSLENLEP DHVPEELDTSARNAGALTRRE IRDAATLLRLGLAYGPGGMSLR EVTAWAQLHDVATLSDVALLK RLRNAADWFGILAAQTLAVRA AVTGCTSGKRLRLVDGTAISAP GGGSAEWRLHMGYDPHTCQFT DFELTDSRDAERLDRFAQTAE IRIADRGFGRPECIRSLAFGEA DYIVRVHWRGLRWLTAEGMRF DMMGFLRGLDCGKNGETTVMI GNSGNKKAGAPPARLIAVSLP PEKALISKTRLLSENRRKGRVV QAETLEAAGHVLLLTSLPEDEY SAEQVADCYRLRWQIELAFKR LKSLHLDALRAKEPELAKAWI FANLLAAFLIDDI\SHRWISPPE
25230	55598	A	25368	482	765	

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25231	55599	A	25369	1	1575	MGSVTKSRGPTDSSAFFQINRD YSFLDYILGGCQLMFTPWARLL QSTCCEQCSKKAHDQFLADLA SILPSNTTPLIVSDAGFKVPWYK SVEKLGWYWLSRVRGKVQYA DLGAENWKPISNLHDMSSSHSK TLGYKSLTISNPISGQILLYKSRS KGRKNQRSTRTHCHHPSPKIYS ASAKEPWILATNLPVEIRTPKQL VNIYSKRMQIEETFRDLKSPAY GLGLRHSRTSSSERFDIMLLIAL MLQLTCWLAGVHAQKQAFRF MRLVDGTAISAPGGGSAEWRL HMGYDPHTCQFTDFELTDSRD AERLDRFAQTADIRIADRGFG SRPECIRSLAFGEADYIVRVHW RGLRWLTAEGMRFDMMGFLR GLDCGKNGETTMIGNSGNKK AGAPFPARLIAVSLPPEKALISK TRLLSENRRKGRVVQAETLEA AGHVLLLTSLPEDEYSAEQVAD CYRLRWQIELAFKRLKSLHLD ALRAKEPELAKAWIFANLLAAF LIDDI\SHRWISPPEVPDPKRRT
25232	55600	A	25370	1	1341	MAGGRKFPDGGDRTTLCGLSQ PGVLAPRSPEKRRAINQRYPSK TGQLPASITDMMRTARHHLG NGISVPKGAELAH PSTVLELFAI SAKPIHPEELDTSARNAGALTR RREIRDAATLLRLGLAYGPGG MSLREVTAWAQLHDVATLSDV ALLKRLRNAADWFGILAAQTL AVRAAVTGCTSGKRLRLVDGT AISAPGGGSAEWRLHMGYDPH TCQFTDFELTDSRDAERLDRFA QTADEIRIADRGFGSRPECIRSL AFGEADYIVRVHWRGLRWLTA EGMRFDMMGFLRGLDCGKNG ETTMIGNSGNKKAGAPFPARL IAVSLPPEKALISKTRLLSENRR KGRVVQAETLEAAGHVLLLTSL LPEDEYSAEQVADCYRLRWQIE LAFKRLKSLHLDALRAKEPEL AKAWIFANLLAAFLIDDI\SHR WISPPEVPDPKRRT
25233	55601	B	25371	1	1233	

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25234	55602	A	25372	1	2197	SHSRGSPGKAVDFTLVSHA AW FGLPHFSTPAFNGQAMMLIAPV AVILVAENLGHLKAVAGMTGR NMDPYMGRAFVG DGLATMLS GSVGGSGVT TYAENIGVMAVT KVYSTLVFVAAAVIAMLLGFSP KFGALIHTIPAAVIGGASIVVFG LIAVAGARIWVQNRVDLSQNG CNPAYAEHHQHPGYSDKLKTR VSFSLRIISTNLRRECRAQFRF HVDASARHGFRLWQIQGVAQP VFIITIREVEAAMRATAFGTEVG RNSRCIRRFHQVIQFQALNALG VELAGIDSRDPRLKVLEEMKRT FHWGRQTISKHIKIWLGLMLGR AMTPLMLDATSGKLT VWDGA HAGAAMGILAVTADQNSAELA YYKSGSFRIEDVLWPSAVTDDN IKRNAFAADGSVNSYSVPFSSV PLLQRQGRIKYAVTLAKYRTNS NEQQESKFAQATLQWGGPWGT TWYGGGQYAEYYRAAMFGLG FNLGDFGAISFDATQAKSTLAD QSEHKGQSYRFLYAKTLNHLG TNFQLMGYRYSTSGFYTLSDT MYKHMDGYEFNDGDDDEDTPM WSRYYNLLYTKRGKLQSLISK RLLSENRRKGRVVQAETLEAA GHVLLLTSLPEDEYSAEQVADC YRLRWQIELAFKRLKSLHLDA LRAKEPELAKAWIFANLLAFL IDDI\SHRWISPPERIPSARKWT
25235	55603	A	25373	1	2754	
25236	55604	A	25374	1	652	
25237	55605	A	25375	1	1800	

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25238	55606	A	25376	1	2187	MAGPRYPVSVQGAALVQIKRL QTFAFSVRWSDGSDTFVRRSW DEFRLKKTLLKETFPVEAGLLR RSDRVLPKLLGQASLDAPLLGR VGRTSRGLARLQLLLETYSRLL ATAERVARSPITITGFFAPQPLDL EPALPPGSRVILPTPEEQPLSRA AGRLSIHSLEAQSLRCLQPFCTQ DTRDRPFQAQAQESLDVLLRHP SGWWLVENEDRQTAWFPAPYL EEAAPGQGREGGPSLGSSGPQF CASRAYESSRADELSVPAGARV RVLETSDRGWWLCRYAGAGPE ELDTARNAGALTRRREIRDA TLLRLGLAYGPGGMSLREVT WAQLHDVATLSDVALLKRLRN AADWFGILAAQTLAVRAAVTG CTSGKRLRLVDGTAISAPGGGS AEWRLHMGYDPHTCQFTDFEL TD\SRDGER\LARFAQPPDEIRIA DGEFVWRPKCIRSLAFGEADYI VGVHWRGLRWLTAEGRFDM MGFLRGLDCGKNGETTVMIGN SGNKKSP\GFPFRARFIAVSLPPE KALISKTRL\SENRRKGRVVQ AETLEAAGHVLLLTSLPEDEYS AEQVADCYRLRWQIELAFKRL KSLHLDALRAKEPELAKAWIF ANLLAAFLIDDI\SHRWISPEV PDPKRRTNSLWRITKMVIWSLQ VAIRGTVSLTAPSLCNSACCCC VSTNSATTLNDFAFARSVIDLTI
25239	55607	A	25377	2	333	RLGVWQDILSRRASCYHGMEV WDKDSFGHISFDDQSMGYSHL GHIVENSVIHYA\ARLVIGADGV DSWLRNKADIPLTFWDYQHHA LVATIRTEEPHDAVARQVFHGE AFW
25240	55608	A	25378	3	235	VAVLEQRVHEPLAANAPPQLR VS\ARLGVWQDILSRRASCYHG MEVWDKDSFGHISFDDQSMGY SHLGHIVENSVIHYA
25241	55609	A	25379	1	774	
25242	55610	A	25380	1	1076	

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25243	55611	A	25381	1138	1737	SVSTEPSVAAFSSIKLRQDPP/H DNLHHQYN*GDIAFC\FTPYFH NCLCQS*WARAFQ*RANEF*R MNCTQLARTSGSHHLIPLTLRF* QICISSGQLIQYSVVCRFIHPPEH RLTIHPLAGQGYNLGFMDAAE LIAELKRLHRQGDIGQYIYLR RYERSRKHSAALMLAGMQGFR DLFSGTNPAAKLLRDIGLKLAD
25244	55612	B	25382	1	735	
25245	55613	B	25383	1	1941	
25246	55614	B	25384	847	849	
25247	55615	A	25385	1	1227	
25248	55616	A	25386	324	1533	EGFMEHQKRLFQQRGYSEDLL PKTQSQRTWKTFFNYFTLWMGS VHNVPNYVMVGGFFILGLSTFS IMLAILSAFFIAAVMVLNGAAG SKYGVFPFAMILRASVGVRGAL VPGLLRGGIAALMWFGQLRGS PFYDLIQTALSSPHKVITIEQFYR EVGVFLGIALIAVVISVLNNFFV SHYVFRWRTAMNEYMANWQ QLRHIKGRTAFINAIMTLIAFLP VLVTL\SAHVPELPIIGHIPYGLVI AAIVWSLMGTGLLAVVGIKLP GLEFKNQRVEAAAYRKELVYGE DDATRATPPTVRELFSAVRKNY FRLYFHYMYFNIRILYLQVDN VFGLFLLFPSIVAGTITLGLMTQ ITNVFGQVRGAFQYLINSWTTL VEL\MSIYKRLRSFEHELDGDKI QEVTHTLS
25249	55617	A	25387	1526	1683	
25250	55618	A	25388	2709	2918	CWCFWHRRSCCGSVRYALSAV PGCQCPET*RRRFPHSAF*RFRS SETGQTGAYVSGPDLQPERLQR LWC
25251	55619	A	25389	1	1812	
25252	55620	A	25390	134	386	RLKPSAAIRRRVSSSRISTPLNPA STTAFVGTDCA\IPRLRATSGLA GSPLIQNRFCRARQPRWSAPVA RHA\AVYARHRWNQII

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25253	55621	A	25391	181	1630	RIRQFCFYHHCVLTLAICAFIVIT LTIWVSFRVSVLVFAMADDIKV AVVGAMSGPIAQWGDMEFNG ARQAIKDINAKGGIKGDKLVGV EYDDACDPKQAVAVANKIVND GIKYVIGHLCSSSTQPASDIYED EGILMISPGATNPFLTQRGYQHI MRTAGLDSSQGPTAAKYILETV KPQRIAIHDKQQYGEGLARSV QDGLKAANANGVFFDGITAGE KDFSALIARLKKENIDFVYYGG YYPEMGQMLRQARSVGLKTQF MGPEGVGNASLSNIAGDAAIEG MLAPVLITVDQPFVQAGFQPLR RLLPAHETGRRTRAYGVGRLT RQIRRQIATTFRHNAQAESKD FQWYRCDPCQLFHLNMRQHAR QHNASNVKMAMIKVNRLFGR RSLHRYVALNMRITLGGVLHH GEVGEDQRVGTQLRRHIHGAL PTGVTVRMRKSVNRDVKFAA MLMDKTHRFLQFFLGKVKAGE
25254	55622	A	25392	2	505	
25255	55623	A	25393	1	2038	
25256	55624	A	25394	188	1771	GKQTSTSPAGWENSLRMRYT MSFSLIATGLLGVYLTTMPGY WGILFVWALFGVTCDDMMNWP VLLKSVSRLGNSEQQGRLEFGFF ETGRGIVDTVVAFSALAVFTWF GSGLLGFKAGIWFYSLIVIAVGI IIFVFLNDKEEAPSVEVKKEDG ASKNTSMTSVLKDKTIWLIAFN VFFVYAVYCGLTFFIPFLKNIYL LPVALVGAYGIINQYCLKMIGG PIVLEKVLPPVSVRVKGTASQ GQKIPEEFKQFFGDDLDPQPAQ PFEGLGSGVIINASKGYVLTNN HVINQAQKISIQLNDRGREFDAK LIGSDDQSDIALLIQINPSKLTQI AIADSDKLRVGRSGLNLEGLN FIQTDASINRGNSGGALLNLNG ENPIDQLKVVGPRPHRIDGPLK TTGTARYAYEWHEEAPNAAYG YIVGSAIAKGRLTALDTDAQK APGVLAVITASNAGALDKGDK NTARLLGGPTIEHYHQAIALVV AETFEQARAAASLVQAHYRRN KGAYSLADEKQTVNQPPEDTP

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25257	55625	A	25395	356	849	GSACRVREIPRPASQMP/HTLPA GSRPPGSEAEPGPEAAPPARRE AHQIPRRRGHLPSSPGPRTHVA AHNIRVVTEAHADSHALLSDLG AAPFVVMRILRVGDGDEDPHV DESIQPTTENAVVFRPVQLTSAI ETGGKEEPYGLSAAASLGRAESS AASLAGRR
25258	55626	A	25396	154	379	LVPRLKLGDLPEINPLSSCSL.V REKDPPTTSCHTTNTNPRNISPIS NPDSTGNRTVQLTW*PLPEPLE LWPKAL
25259	55627	A	25397	4761	5127	LGSGDLPWEINPLSSCSLIREKD PPTTSGPQT\TSPRNISPISNPIHTR TSKRLNRSQGAFLLQNLPLQELA TSARNLTTRPRNACSPGFLLSR VPSVRDPTGNWTVQLTWQPLS EPELELWPKAL
25260	55628	A	25398	1	753	MGSWLQGLRAMVFALNYMVT RVRNKKDPPTTSGPQT\TSPRNI SPISNPR/PKETRFICGPKTPAPL MDWEGSLPLMFNHCRDTSI.IIH PCFQGVPRCDACLSPSPLAASP AFLGKGQVPLNPFFTLSGKSRF SGGGASTPTPSFHVSTPSLI.FW GRGKYPSTPSPLVASPAFLGK GQVPLNPFFTLSGKSRFSGEGA KAPETITDAELRVTLTVEAAVC STIALSLGWEILPRHWGKEEVT KTIYYPVIP

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25261	55629	A	25399	174	2238	LRSGDLPWEINPLSSCSLLHEKD PPTTSGPQT\TSPRNISPISNPRQR RHILSMDPKLRRRSWTWVGSLP LVFNHCRDASLIHPGFRGVRPR RDVCLGPSPLATITDAELYVTL TVEGKSIPFLIDTEATHSTLPSFK GPVALASIHVQNVQIKRDKEGH YIMVKGSIQQEELTILNMYAPN TGAPRFIKQVLNDLQRDLDSHT IIMGDFNTPLSTLDRSTRQKVN KDIQDLNSALHQADLIDIYRTL HTKSTECTFFSAPHRTYSKIDHI VGSKALLSKCKRTEIINCLSDH SAIKLELRIKKLTQNHSTTWKL NNLLNDYWVHKEMKAEIKM FFEINENKNTTYQNLWDTFKAV CRGKFIALNAYKRKQERSKIDT LTSQLEEEKQEQTRSKASRE EITKIRAELEKETQKTLQKINES RSWFFEKINKIDILLARLIKKR EKNQIDAIKNDKGDIDTDPTEIQ TTIREYYKHLCPNKLENLEEMD KFLDTYTLPRLNQEEDESLNRPI TGSEIVAIINSLPTKKSPGPDGFT AKFYQRYKEELVPFLQKYKEEL VPFLLKLFQSIEKEGILPNSFSEA SIILIPKPGRD\TTKENFRPISLM NIDAKILNKILANQIQHIKKLI HHDQVGFIQGMQGWFNIRKSIN VIQHINRTKDKNHMIIISIDA EKA FDKIQQPSC
25262	55630	A	25400	3	267	EKDPLTTS GPQT\TSPRNISPISN LRLFAFTWDPDTHQAQQITW AVLPQGFTDSPRYFSQAQISSLS VTYLSIILIKTHVLSLPIMSD
25263	55631	A	25401	167	408	LGSRTFPWEINPPSSCSLLREKD PPTTSGPQT\TRPRNISPISNLVS GLFLLSSPTSLTIPQLSSFNLD TLQSLPSLNF
25264	55632	A	25402	142	441	LRLGDLPEINPLSSCSLLCEKD PPTTSGP\PRNISPISNPVSGFL SSPTCLTIPQLSPFNLGATLQSL PSLNFNSFHFLVETKETRFIRGP KTPAP
25265	55633	A	25403	79	381	LGSGDLPWEINPLSSCSLLREKE PPTTSGPQT\TRPRNISPISNP ELATAGNLAGTGRNARSPGFL VLSVWDPTENQTVQLTWQPLP QPLELWPKAL

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25266	55634	A	25404	1	511	MWKGPKGLDMYGKSSVSPKTS DILGRDTLLLALKVQTVVLQTA CGEGHVAGNCGRPLETEGSLQ LTATKKLRDSVLQPKSPEFCQQ FTRAWNRTQVPDETEAPAGTY AAQSGDLPWEINPLSSCSLLHE KDPPTASGPQ\TSPRNISPILNR VSEVSDHAGTPALVLHP
25267	55635	A	25405	570	1182	LGSGDLPWEINPLSSCSLLHEK DPPTTSGPQ\TSPRNTSPISNLH ALKGLKPAITRLLQHGLLKPIN PYNPILPVLPDKPKYKLVQDL CLINQIVFPIHPVVPNPYTLLSSI PPSTIHYSVLDLKLAFITPLHAS SQPLSAFTWADPDTHQVQQT WAVLPQSFTDSPHYFSQAQISS LSVTYLSIILIKTHVLSLPIVSD
25268	55636	A	25406	489	615	LRNTWNSPRLMACALHSGSPSC TWGPYS*SGLSENLASQRVCP YQENVGRVRDTEIKEHCYEES SYRAATQIQVRKVGHTEPYPFM ASLRTHCIICETCYEMKISFSKS LNPLEKNKKSQPANCAVKEVS EQLRRRQAFSVAAGLKGKGS AQSRKNLQKPYQHFQTLQQL PLQWAPCYGPSNFATHGTHQG LWLVLSTVAAQAVPGALIAEA TALLAWIQGAVS
25269	55637	A	25407	579	715	LGSGDLPWEISPL\SCSLLHEKD PPMTSGPQ\TSPRNISPISNLR
25270	55638	A	25408	1553	1896	
25271	55639	A	25409	964	1332	SCRFIRIYQGACCNLHPGEINSH VAHTKPVWWSLHTDTHENCHL NTAVFFYHWALEFFLNPLRR/ CSC*HSLPGQFPVSLCLRVLSVD CAHPWGKPEAPGS*HPGPWQFS SLPSPWLPLYQHP
25272	55640	B	25410	1	717	
25273	55641	A	25411	590	1142	PNSSWMRGEPPKDPPTTSGPQT \TSPRNISPISNPR/PKETRFICGP KTPAPLMDWEGSLPLMFNHCR DTSIIHPCFQGVPRCDACLSP SPLAASPAFLGKGQVPLNPFFTL SGKSRFSGGGASTPTPSFHVSTP SLLFWGRGKYPSTPSSPLVASP AFLGKGQVPLNPFFTLGKSRF SGEGA

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25274	55642	A	25412	1	790	MGLVHLQRQSYWTVQRSSINH FLGCNPHTGKDKTLYMRWTKS FRKVEDPPTTSGPQTDQPKKHL TKFKSETKETRFIHGPKTPAPV MDWEGSLPLVFNHCRDASLIHH SHFKGVRPRRDACLGPSPLAAS PAFLGKGQVPQPLISLCPDPLFP HPNLISLRPNPLCPHPDLVSLCP DPFPAFLEAHKNFQTPEPQQPGI PPEPPPPGACYKC/HEI*PPGGG MPAAQDSS*AMS/LSVRDPTGN QTVQLTWQPLPELELWPKAL
25275	55643	A	25413	1	736	MQAMEKWKREAKVETEDQK NQYQQTWLSDSASGYRYTKLP FYFRHNNLIPALAHLLFLDSLVS DLTAFFMQFWLSAQMSSDQ RGLPGYLLWAEISLLEISELTS GKQDSSWPEVKAGLKKEANYL SSDSARLHPGEINSLVAHTKPV WWSLHMDTHEIWCARDSNWGD LPWEINPLSSCSLLHEKDPPITS GPQTVTSRNLIPISNPPSSKHQE KPPEAISTLPNAAATAAAVGS LLWSL
25276	55644	A	25414	1644	2010	LGSGDLPWEINPSSSCSLREKD PPTTSGPQTVTSRNPISNPHTK TSKRLNRSGQAFLLQNLQPQELA TSARNLTTRPRNACSPGFLLSR VPSVRDPTGNWTVQLTWQPLS EPLELWPKAL
25277	55645	A	25415	1	1035	MGKEYSLDVKKSIVFKDNRS QGNRLQKLGLEDTDREDAMGF GSHRAKLTVAALGACHCPEN EGQTVLPSSSTSGRSDKRERSA GYTPPFFVKEGVPSPLFKLHV RCCSIQSHHSRRSQNCAEDVIR KTKTDQAVSSMSSAPVTVQQL NIIPALLVALTCGWAFCLMVSQ EQYDEASKQAASFNNVIPVY MSHMSKTLTKSEVFPINTYAQK ICFIAHTKPVWWSLHMDAHEI WCRGRRSTDLPWEINPLSSCSL LREKDPPMTSGPQTVTSRNPISPI LNQELATRAGNLATRPRNACSL GFLLSRISVWDPT*KFGLVQIT LGKPLPELELWPKAL
25278	55646	A	25416	174	393	LRSGDLPWEINPLSSCSLLHEKD PPTTSGPQTVTSRNPISNPGET KETRFIRGPKTPAPVMDLGRQP SLGV

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25279	55647	A	25417	2	4574	WDVLGAVIGTECGTIESGLSMV FLKDGERKLCTPSMDTTGYGN LRFYFVMAKWIYIPENVVKGR KEIILVLDFTWCMVHRGICDPG NSHENDIILYAKIEGRKEHITLD TLSYSS/L/SSLYWPVMSQILFW QRTVH*TWLQL*DGIPDIPNVY F*KLWQFQALLP*LLLYPWC* SQLWLWCLGQW*GPGFQQRW AASANYIFP*QLTIQNNLRRTTR *CKAVWNSVQMVATVSFFPER RCMGY**DYHDICA
25280	55648	A	25418	1	363	
25281	55649	A	25419	1	301	
25282	55650	A	25420	2	309	
25283	55651	A	25421	3	512	YIGPCLKFCSGRGQCTRHGCN CEMASQTFFPMFISESFGSSRLSS YHNFYSIRGAEVSFSGCVLASG KALVFNKDGRRQLITSFLDSSQ SRIISVELPGDAKQFGIQFRWW QPYHSSQREDVWAIDEIIMTSV LFNSISLDFTNLVEVTQSLGFYL GNVQPYCGHDWTL
25284	55652	A	25422	2	878	
25285	55653	A	25423	1	750	
25286	55654	A	25424	1	1404	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
25287	55655	A	25425	1	2506	GCSRLLVTVDLNLTNAEFIQFY FMYGCLITPNNRNQGVLLYESV NNGGITWNLLMEIFYDQYSKPGF VNILLPPDAKEIATFRWWQPR HDGLDQNDWAIDNVLSGSAD QRTVMLDTFSSAPVPQHERSPA DAGPVGRIAFDMFMEDKTSVN EHWLFHDDCTVERFCDSPDGV MLCGSHDGREVYA VTHDLTPT EGWIMQFKISVGCKVSEKIAQN QIHVQYSTDFGVSWNYLVPQC LPADPKCSGSVSQPSVFFPTKG WKRITYPLPESLVGNPVRFRFY QKYSMDQWAIDNFYLGPGCLD NCRGHGDCLREQCICDPGYSGP NCYLTHTLKTFLKERFDSEEIKP DLWMSLEGGSTCTECGILAEDT ALYFGGSTVRQAVTQDLDLRG AKHDYILLPEDALTNTRLRW WQPFVISNGIVVSGVERAQWA LDNILIGGAEinPSQLVDTFDDE GTSHEENWSFY PNAVRTAGFC GNPSFHLYWPNKKDKTHNAL SSRELIIQPGYMMQFKPFGFCRS DSWQLVQTQCLPSSSNSIGCSPF QFHEATIYN SVNSSSWKRITIQ PDHVSSSATQFRWIQKGEETEK QSWAIDHVIYGEACPKLCSGH GYCTTGAICICDESFGDDCSV FSHDLPSYIKDNFESARVTEAN WETIQGGVIGSGCGQLARYAH GDSL YFNGCQIKRAATKPLDL
25288	55656	A	25426	146	10561	GGGGGGGGGGMERSGWARQT FLLALLLGATLRARAAAGYYP RFSPFFFLCTHHGELEGDGEQG EVLISLHIAGNPTYYPVPGQEYH VTISTSTFFDGLLVTGLYTSTSV QASQSIGGSSAFGFGIMSDHQF GNQFMCSVVASHVSHLPTTNLS FIWIAPPAGTGCVNFMATATHR GQVIFKDALAQQLCEQGAPTD VTVHPLAEIHSDSIILRDDFDS YHQLQLNPNIWVECNNCETGE QCGAIMHGNAVTFCEP
25289	55657	A	25427	1	296	

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25290	55658	A	25428	1	557	MARSLGVLVALPFPLPVGFNAE EAHNIVKEFSPGKSHPRESLSQQ RETLVQAGAFHWFGWRGKEK LKPKNFTFGRLPNEMLEQWLSP TNQCV DGV/LKGGED\YNHNNI NQWTASIVEQSLATHLVKLGA YKYIVTCAVVQKSAYGFHTASS CFWDTTSDGTCTVRL/WENRT MN\CIVNVFCHCLFVL
25291	55659	A	25429	178	2270	VRLFCVQTGGSPVGRGSLHHL WLVFSHVL SLLCSPCLLAPGM WGFHDRDLVLRKALYTMMRT GAEREALKRRWRWQQTQQNK ESGLVYTEEEWEREWTELLKL ASSEPRTHFSKNGGTGGGHLPP EGKPLHGCSSLLRSGKGGHVK AEPSRLQSQAKPPLTSQIRALH FPIPSQINEKPGAGHWSAKLHFP YWQLGEAGEEEGSSPPDIMRCL LTCLSV PSTAVIPLTDSEHKLLP LHFAVDPGKDWEWGKDDNDN ARLAHLILSLEAKLNLLHSYMN VTWIRIPSETRAPLAQPESPTAS AGEDVQSLADSLDSRDSVCS NSNSNNGKNGKDKEKEKQRKE KDKTRADSVANKLGFSKTLGI KLKKNMGGLGGLVHGKMGRA NSANGKNGDSAERGKEKKAKS RKGSKEESGASASTSPSEKTTPS PTDKAAGASPAEKG GGPGRGDA WKYSTDVKL S LNILRAAMQGE RK FIFAGLLLTSHRHQFHEEMIG YYL TSAQERFSAEQEQR RRDA ATAAAAAA\PPPPRP/ERPPRP ETEGVPVPERASPGPPTQLVLK LKERPSGPAAGRAARAAGG TA/CPGGRRAACERQRTSAWPQ PPGASAPERHPRAGVGRAGRG VRAGRGGAAAVRHVPAAEPLA VVAELQPGARRRPAHRQHGRV AGARGARGPTGRGGDRGGGRA

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25292	55660	A	25430	404	1116	SLGPLMLSGQKLQTSYTMYY AAIKR/DKIVSLVGTWLELEAIL KKLMQEQKTKYHMFLLDSLH GMQQAERVLIADGTMLLSAQY QFENNLLVPILRVSRKSLQRKE EPGRKAKKSQTSGEGIKRRFW FEWKEPVALSSQGWYEAKGSE RPEKGHLGLLRAESFQDLRTAL ISKPYFSVPGKVGPAPKCPETLP ELKTYPPQYGVTLGEPVRNEQQ QASSFPLSNTHLSKRNES
25293	55661	A	25432	1571	1782	WLLCRLPPRPVDQL*WCGCQPE KCAGAEFQDGSAMPLPSRTCPH SPRMCTGWSTTCATTDSATTA CPLAL
25294	55662	B	25433	69	1160	
25295	55663	A	25434	14	437	LQTSHPYPTTSKC/PPP/CEKPSP TSL/C*RRSAPHLQPPE
25296	55664	A	25435	782	997	MMLCQLQRPV/CGSHSCSRG/C PPAQ/CPSPVPVSPQSAFPVPQS PSSTCPNPSHPIHPIMVPSSWSG HWDSK
25297	55665	A	25436	1117	1815	GDAHQEQCLQNLVPRGSRPPLP LESHPSSSKHSPKACPTGRS/CG PWK/CPGPEVRP*PPPSCTR*DP HFRGLLEGLLEPRHVTCLALCG PQRVLYWPVYHERLGEGWDW CPSSWPGA

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25298	55666	A	25437	1261	2757	ALGKDEKSQGPPIQTGGLGPRL FRLPSSSQQERRFAAAKAPSSL VPHNGSPLSCWRGLREEGGLSL ATLWTPCGVGSVPAAPPSAW CDLGKLLVCWRGQNRGPRSTQ TDVRRHEARSRQRRRKCVAAAP VAPRSRRWRCPAALAAPAVAV PVVFAIFLLGTVGNGLVLA VL LQPGPSAWQEPGSTTDLFILNL AVADLCFILCCVPFQATIYTL D AWLFGALVCKAVHLLIYLTMY ASSFTLAAVSVDRCAPVGHPL GRAVGAGVGGGVNLVGLVWL LAALFSAPYLSYYGTVRYGALE LCVPAWEDARRRALDVATFAA GYLLPVAVVSLAYGRTLRLFW AAVGPAAGAAA EARRRATGRA GRAMLAVAALYALCWGPHHA LILCFWYGRFAFSPATYACRLA SHCLAYANSCLNPLVYALASR HFRARFRRLWPCGRRRRHRAR RALRRVRPASSGPPGCPGDARP SGRLLAGGGQGPEPREGPVHG GEAARGPE
25299	55667	A	25438	1	1624	MKDKSKTLGLEASIFRNNWKC KSIFEGLKGHQEGYFSQMIISYE KIPSYRKSLSLTPHQRIHNTEKS YVCKEKGKACSHGSKLVQHER THTAEKHFECCKEKGNYLSAY QLNVHQRFTGTEKPYECKEKG KTFSWGSSSLVKHERIHTGEKPY ECKEKGKAFSRGYHLTQHQQIH TGVKSYKCKEKGKAFWGSSL AKHEIHTGEKPYKCKEKGKAF SRGYQLTQHQQIHTGKKPYEC KICGKAFWCWGYQLTRHQIFHTG EKPYECKEKGKAFNCGSSLIQH ERIHTGEKPYECKEKGKAFSRG YHLSQHQQIHTGEKPFECKEKG KAFSWGSSSLVKHERVHTGEKS HECKEKGKTFCSGYQLTRHQV FHTGEKPYECKEKGKAFNCGSS LVQHERIHTGEKPYECKEKGK GFS\GGYHLTQHQQIHTGEKPF KCKEVCGKAFSWGSSSLVKHERV HTNEKSYECKDCGKAFGSGYQ LSVHQRFTGTEKLYQRKEFGK TFTHGSKLVHERTHSNDKPYK YNECGEAFLWTTYSNEKIDTDE

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25300	55668	A	25439	32	447	VLGGSMFMFREGQRGNRQKGP KKRRNLALSSALLASTA\PAGG QPRHWRPG*CCLRQQL*PLQGN WAPVSPLQGHRSQLRAGYSSS FLQMFAP*VQGAARAQPAPGA AVPRGSGRQGGPRAVDLHGFR VGWNRLRAASM
25301	55669	A	25440	1	858	
25302	55670	A	25441	147	1088	SRTTYKKGKSSFQTYSDYLRWES FLQQQLQALPEGSVLRRGFQTC EHWKQIFMEIVGVQSALCGLVL SLICVA AAVFTTHILLLLPV LSILGIVCLVVTIMYWSGWEMG AVEAISLSILVGSSVDYCVHLVE GYLLAGENLPPHQAEDARTQR QWRTLEAVRHVGVAIVSSALT TVIATVPLFFCHIAFPKFGKIVA LNTGVSILYTLTVSTALLGIMAP SSFTRTRTS/CPQGPCRAAGRG PGAGCLPRAPAERL*DSPARRG LPIARDGLWTLAPLPVWVGDR SCFPARLQLAVSPGLGPGRPAG
25303	55671	A	25442	1	1596	MGVSVRVDCGCARASEFLGRP RGAVRGADPGSGLTETCAQSR TWARARSKGGFRLTLNFGYGR YPSEGTSRGQRSEALPFLDIQHP TPLGRPRMLQSRGEMVRSWGP VVEGKLGFPCPLTVFPGGLRGP HPGLAGERENFARGAKQEACL LQGPGDAGLTHPCPATGYFPEA SCTSR SIRMFIN SQERQLADMSL FIADSWLCYSGIICWKSLEHQR GASLSCVYMEGKGGNIWMKAS NVLPLCQMLPTSGHKSDFGG LAVEKQMRQDHHILLHDRSGF QLAVTSPLLTRLGKGHIQVPV YVLDAPSRWLGLRLFRDSSCG LVLSLICVA AAVFTTHILLLL PVLLSILGIVCLVVTIMYWSGW EMGAVEAISLSILVGSSVDYCV HLVEGYLLAGENLPPHQAEDA RTQRQWRTLEAVRHVGVAIVS SALTTVIATVPLFFCHIAFPKFG KIVALNTGVSILYTLTVSTALLG IMAPSSFTRTRTS/CPQGPCRA AGRPGAGCLPRAPAERL*DSP

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25304	55672	A	25443	1	2355	MDHPGFREFCWWKPHEVLKDLP LGSYSYCSPSSLMTYFFPTERG GKIYYDGMGQDLADIRGSLEL AMTHPEFYWYVDEGLSADNLK SSLLRSEILFGAPLPNYYSVDDR WEEQRAKFQSFVVTYVAMLAK QSTSKVQVLYGGTDLFDYEV RTFNNDMLLAFISSSCIAALVYI LTSCSVFLSFFGIASIGLSCLVAL FLYHVVFGIQYLGILNGVAAFV IVGIGVDDVFVFINTYRQATHL EDPQLRMIHTVQTAGKATFFTS LTAAAYAANVFSQIPAVHDFG LFMSLIVSCCWLA VLVTMPAA LGLWSLYLAPLESSCQTSCHQN CSRKTS LFPGDVFAAPEQVGG SPAQGPIPYLDDDIPLLEVEEEP VSLELGDVSLVSVSPEGLQPAS NTGSRGHLIVQLQELLHHWVL WSAVKSRWVIVGLFVSILISLV FASRLRISASRAPLLFRPDNIQ VLLDLKYNLSAEGISCITCSGLF QEKPHSLQNNIRTSLEKKRRGS GVPWASRPEATLQDFPGTVYIS KVKSQGHPAVYRLSLNASLPAP WQAVSPGDGEVPSFQVYRAPF GNFTKKLTACMSTVGLLQAAS PSRKWMLTTLACDAKRGWKF DFSFYVATKEQQHTRKLYFAQS HKPPFHGRVCMAPPGCLLSSSP DGPTKGFFVPSEKVPKARLSA TFGFNPCVNTGCGKPAVRPLVD

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25305	55673	A	25444	I	1737	MLYAAECLRNVMKLQVIPSAL NEALQAQSTWSDLGLASHALS STWCLHGESAAWSQPAVVECG QPRDQLQTHSEAWLCALVATF SQELEQFAVTGAQISDRQGHAV CTAPPRGRPSTLMTNLVCASSA DECGGGKTETQTAGGRLQGAE TRSRGQLTRLITRTQAAEPRWF LQLLKRSANRSRALTRPFSGLSS DGARRLRLSFVSAVSSADTKPT VPVSSDSSGRDGCGETRAEAGP GGPHVAQPQRVAPPA AAAARDF RKPRGLNRQNVSP/PGPGEQGP G/PRPQKPAGRAP\PEPQGEPL GLFPR\GRPPRSFPGSPADPAAS VSHTQGSPDGTGLPGTCQNRLP NPAAVDEQTCTRGSLNCRLSRS PRVSERRGPEGTPGRRPAAPPQ CAGTRGLSPRADLGAAIRTPRA PYRPHGQGRPSRHNCDSVSSQG WPPHSCWWKTTSNGMPWKAS FCSRTAQPANQNTGNHERGLRS VAMFGDRASREATPALSLCESQ GCFEDEKEVFSPEPHVETSDEPL PICS GPGDGWGDPIARPGRGNN LSPGTSAWEVPRWIRVTGEDW LSTGPAECVFINDLTT

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25306	55674	A	25445	2	1642	LLSSISAWFGPPASTPAFTMSIR VTQKSYKVS\TSCPRAFSTRSYT SRPGSRISSSSF\SRVCGSSNFRGDL GGGYGGASG\MGGITAVTVNQ SLLSPLVPEVDPNIQAVRTQEKE QIKTLNNKFASF\DEVGFLEQQ NKMLGTKWSLLDQQKTA\RSN MDNMFESYINNLRRLQLETLGQ EKLKLEAELGNMQPLVEDFKN KYEDEINKRTEMENEFVLIKKD ADEASMNKVELGSRLEGLTDEI NFLMQLYEEEIRELQSQISDTSV VLSMDKSRSLDMSIIAEFKAQ YEDIANRSRAEAESMFQIMYEE LQSLAGKHGDDLRRRTKTEISEM NRNISR\LQAEIEGLKGQR\ASL GGRPLQDAE\QRGKSWPIK\DA NAK\SEAGSPPLQAGPKQDMG R\QLREY\QKLMNVKAGPWTIE\ IATYQESCLEGEETPGWSLGCQ NMS\HT\KTTQRGYAGRPEPPP MGGFTSP\GFSYKPGAPGFGSG AGS\SSFNHQLSPGAVVVKKIE TRDGKLVSES\SNVLPKVQRLR QPLPSLPLLRCPRLGKEAPYP
25307	55675	A	25446	1	1280	MAYLCNAICMTHMVTLDPVVDQ ALPGATTATSVPGPQCDASCM MLFAVVPFNGIALAATQGAQS MLPPRVQGSLSKPSTRGRDA PGLQVSQAPPPRRGFVGRRY PPALAPGRCAAPHGGGRKELPT RRPGHGMAPKFPDSVEELRAA\ GSESFRNGQYAEASALYGRAL RVLQAQGSSDPEEESVLYSNRA ACHLKDGNCRDCITDCTALAL GPFSIKPLLRASAYEAEKYP MAYVDYKTVLQIDDNVTSVE GINRGPGLKEDTTQKRWNSLPS ENHKEMAKSKSKETTATKNRV PSAGDVEKARVLKEEGNELVK KGNHKAIEKYSESLCSNLES ATYSNRALCYLVLKQYTEAVK DCTEALKLDGKNVKAIFYRRAQ AHKALKDYKSSFADISNLLQIEP RNGPAQKLRQEVKQNLH

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25308	55676	A	25447	1	1297	MHLLSAYFVPGSMLVGSGYM MVNITDVSPPSWSFLCSMLITTT QGAQSM LPPRVQGSLSKPTR RGRDAPGLQVSQAPPPRRGFAV GRRYSPPALAPGRCAAPHGGG RKELPTRRPGHGMAPKFPDSVE ELRAAGNESFRNGQYAEASAL YGCALRVLQAQGS SDPEEESVL YSNRAACHLKDGNCRDCIKDC TSALALVPFSIKPLLRRASAYEA LEKYP MAYVDYKTVLQIDDNV TSAVEGINRMTRALMDSL\GPE W/RALKLPSFPLVPVSAQKRWN FLPSENHKEMAKSKSKETTATK NRVPSAGDVEKARVLKEEGNE LVKKGNHKIAIEKYSESLLCSN LESATYSNRALCYLVLKQYTEA VKDCTEALKLDGKNVKAFYRR AQAHKALKDYKSSFADISNLL QIEPR\NGPAQEVAGREVKQNL
25309	55677	A	25448	3	491	GITFTHSPAATGGGAQRVRRRD PPPGVQLRNMAQETNHSQVPM LCSTGCGFYGNPRTNGMCSVC YKEHLQRQNSSNGRISPPATSV SSLSESLPVQCTDGSVPEAQSAL DSTSSMQSPVSNQSLLESVA ASSQLGQYICGTKAVPETEDVQ ASVSDTAHV
25310	55678	A	25449	1	860	HLLLLAIDYNLPIAGVLMESQY LGASPKRLVIPNLYAHRKSLAT LEPYAPRRPMPIARRYAIPYMS HHNGYIGDVYYRLTVEEKKSSF IARRSILTTEFTIRRTKKVPVPSI NMSSASPLEDES RPSAGVQLRK GRYRLLRDRYRPGCNSVGESPR KSSFSDDIMATESRESIFAEPR TGEHSVRGPVSNQSLLESVAS SQLDSTSVDKAVPETEDVQDSL NASPTKQQCG/DVQTVDLYSNN KELFAQKCYRHRYISRLKKCCL CHELVPRDTIKSPESLSVGS
25311	55679	A	25450	880	1196	SPTTRRGTPGTCLKPTACAGAA *PGCSARRTCASAAPLSTCPPSS CAAPPAPAAVPSTPRPTSPSPW AAPASPSRRRTQTASTPASTNR APSSCWAPTTRPLAP
25312	55680	A	25451	254	579	IEKISLEPKNRSPQIPNLVGP/R LFLVPGDFQSQVPNFLPFKPSSG PHPAAGKGQPFSLPAWRSTGP ERATPGPGRPAACSALEAPSLR GPSGYSAQEP RRPISARI

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25313	55681	A	25452	6	1442	RSELIRHSWPRHAQLRGARART AVSIRECISVHVGGAGVQIGNA CWELFCLEHGIQADGTFDAQAS KINDDDSFTTFFSETGNGKHVP RAAMIDLEPTVVDEVRACTYR QLFHPEQLITGKEDAANNYAPG PPTPGGKESIDLVLDRIRKLT ACSLQGGFLIFHSFGGGTGSFT SLLMERLSLDYGKSKLEFAIY PAPQVSTAVVEPYNSTLTHTTL EHSDCAFMDNEAIYDICRRNL DIERPTYTNLNLISQIVSSITAS LRFDGALNVDLTFQTNLVPYP RIHFPLVTYAPIISAEEKAYHEQL SVAEITSSCFEPNSQMVKCDPR HGKYMA\CCMLYRGDVVPKD VNVAIAAIKTKRTIQFVDWCPT GF\KVGINYQPPTVVPGGDLAP VQRAVCMLSNNTAIAEAWARL\ DHKFDLMYAKRAFVHWYVGR GDWKKGEFSEAREDLAALEKD YEEVGVDSVEAEAEEGEEY
25314	55682	A	25453	3	618	SSAGREPDPDLPRRLCFTHRLP AARRWVQLCVHASPEPGGQGV CPGRSERMVIRVFIASSSGFVAI KKKQQDVVRFLANKIEFEEVD ITMSEEQRQWYKNVPPDKKP TQGNPLPPQIFNGDRYCGLLV FSVICIKNPNWHNLFLLIPWSGI NPYCEQDSSFSENVGDEILKNS GVPRDFTSILIQKERKSEKVK VDQGHR
25315	55683	A	25454	3	424	SWTMAATIQA MERKIESQAAH LLSLEGQTGMA*S*GTPCCPG AAAGSRSSCCAAGSPRSPAASA AARTPAAGSPARPTCPPAGSRT PRLSSRNQPASSRPSRFDLLGKA GEQPAIQSSSPWPESWLPSTK
25316	55684	A	25456	268	445	
25317	55685	A	25457	3	205	
25318	55686	A	25458	27	272	AKCSGQGPGRVRAQGERADHE CPGAGAGGGGCNSAASAREES SRLISG\SLQM QNVSLASRRKEE EVRAAAAGGAAAGRPRV
25319	55687	A	25459	1	253	
25320	55688	A	25460	2145	2399	

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25321	55689	A	25461	174	1309	HLLCCRAQRRPQTTPPAARGLEA CSEGALKMPEAPP\LLLA\VL GLVLLV\LLLLLRHWGWLCL IGWNEFILQPIHNLLMGDTKEQ RI\LNHVLAACGSPGNAQSVLG GHLTPNCEQKEW/APLNVGDK KGQDSWDALISREQPALPCLIG NLGAYFGLLQLLRMAR\LI.VNQ GARLIHHSRFPDLCPPSPKRM\ VDFAGVKDKALFQVTL\VCAS PETFHPPSLKKKYDVGHNWTW VFLDHWKDRYL\PDTLLEEC G\LLPEGGQLLLAEQRLSSPGAP \DFL\AHVSREPACFG\CTHYQI VPWKYRE\VVDGLGRRPIYKG P\GSEAGALTAPPRPPSRALSPK PGTEGARPWLLTLVRLRACVL NAKSHARAESLRA
25322	55690	A	25462	2470	3460	SGPCPRCCAECRPYKTR\PSRV PGTHGPGPADHGQPPCCMAGA HPPRPQAWMLLQTHSQDCEGK VGCGGIFCPCYHHCKHTIIIIH HHPHHHHYHYHHHNHHQH HHHHHHYHHYHSHYHHYHH HLHHH\HHHHHHPYPHHYHH RGQDHHHPHHHH/HHIYHH HYHHHYHPHHHPHHHQPQH HHHQHYHHHYHHHHPHHPIH PHHHHHYHYHHHHHHHY\IPY PHHYHHHHHHHHHPHHIIII/ HHHYHHHPHHNHYHHHHIPIH HHHRPHHHHRHQHPHHYIIII HPHPCHHRLHHHHRHHHYHH TSSVQGPSQPAGASLPGQACR
25323	55691	A	25463	1	407	DAERQEALGIVRRIGTDTEAAT EPAGATVPAAAAAARIGTVGP QPPAMPRRKRNAGSSSDGTEDS DFSTDLEHTDSESDDGTSSRSA RVTRSSARLSQSSSRJSRCSKS GSLALRSLTLPEE*PVVSSSL

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25324	55692	A	25464	3	2539	RILYIPDGHRA PGASQSGNWEH PLLLLEPGNLASSPSMSLAYPHP CGLTIHQEHRAHEELAYTPND RASSTGHPAFIEDGNPSPVLAFA ASPRPNDSYILKREPPESCEKER VFEEATT RGKYGEGAKQETFTF ALTLVFIQCVINAVFAKILIQFF DTARVDRTRSWLYAAC SISYLG AMVSSNSALQFVNYPTQVLGK SCKPIPVMLLGVTLLKKKYPLA KYLCVLLIVAGVALFMYKPKK VVGIEEHTVGYGELLLLLSLTL DGLTGV SQDHMR AHYQTGSN HMMLNINLWSTLLLGMAVSCP DQGP ELVPRCPFVQALEKPSWK NLHQQDLFATCYWHNEGESC SCHGKTLSSKTQGGILFTGELW EFLSFAERYPAIIYNILLFGLTSA LGQSFIFMTVVYFGPLTCSIITTT RKFFITILASVILFANPISPMQWV GTVLVFLGSTQIILDNLKILNTS AKTLLYKTPLSWQELEG ERASS CAHKRSASWGSTDHRKEISKLK QQLQRTKLSRSGKEKERGSPLL GDH/VSAGSTEGVPS/RASPQGP LSCDSAPACT/VSLEGLNQEELE VFVKEQGEEELLRI LDIPD GHR APAPPQSGSCDHPLLLLEPGNL ASSPSMSLAS PQPCGLASHEEH RGAAEELASTPNDKASSPGHPA FLEDGSPSPVLAFAASPRPNHSY IFKREPPEGCEKVRVFEEATHQ
25325	55693	A	25465	845	1316	LSLGDSAQCLLP HASWCQVAG HPAFLEDGSPSPVLAFAASPRPN HSYIFKREPPEGCEKVRVFEEAT S/RRVLTGPFLTSCPDK\NKVHF QP\TGSAFCPVNLMKPLFPGMG FIFRNCPSNPGISSSPGQPQATTS EGSGSLQGLPTAIRAMAAHPYH Q

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25326	55694	A	25466	1077	1506	CDACGRRRCRTCTFCLGLQPAG LDGHHHRHPDCWFPWSPRHR* GMIIDVFSRYSGSEGSTQTLTKG ELKVLMEKELPGFLQILTNEDE PLVTIPFLSHSCSLAYLLTTSN RVNALLKWLKLGGERWQMTE EGIKGQORSGHGPEQAENPLGDS VPQDTTKDVPLTQHRLHQGLE AGVPKTSVPARPGLPVPALQHA QIPGPCERALLHCHNGPQRLQH SLQGEEQRETHLRGQDWPCITL QMRTLKREVHALPGGRAGGAA REGLGASICETGEHQMTNFQVP RWPPCFPGQAGPVLGTGTRHG LDLLSGRPGTVRKGSVARIMK EEVTVTKQSAADLRHTGQGPT CCVLSGGRCGSQACSRRPFSLL LGDESEPHGRGPFAAALHHR NPLNDVMLVGDDAGPAGHFAS VYNPLAWTVTTIVTLTVGFPGV RVTDEAGHPVPSQVSGIQRCLQ GMKAPPVTVTVSGEKGSCLCA SCVLCLEHPYFPLVPWLPPVFR DSVIPSTSPQEAVLADVGFNR NVPQRAQLKPQKQILTPF
25327	55695	B	25467	31	783	
25328	55696	A	25468	846	1392	PDPAHRFGHPTLHPGSLRTSS GAGTWYQNPQHNDHDYHYHH HHHHDDHHYHYHHHHHHHHHH HHYHHHHHHHHHHHHHHHHHH HHHQHHHHHHHHYHHHHHHHH HHHHHHHHHHHHHDQHHHHHH HHHHHHHHHHHHH/HF/HHHDH HHHHHHHDHHHHHHHHHHHHHH HHHHHHHHHHHHHDHHHHHHHH YP
25329	55697	A	25469	181	412	LRSDQQTRKFVSRSSGACSPPTT TELSWPPSLLPSL*FHSPSSQP* MNHSASTTSPLPFITERESILAT EWDTARN

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25330	55698	A	25470	1	848	MPSLNTIVSPLGSPHTSLIPPML LSANLPFDTTIMIKLQTACSAPI HNLQRPCGENLRTSTFVRRLLDR NLVKSPQPGGGGQPSRQWEAR GAEPQGRRDPSVQ/RPAGRGF GRISRAPRKPSRAPTPQTQGLGPP LGAGGQGSLASCRPARKNARPP TRAAAHSAHPHSHWHSHARPQ PQSPSAAGQSGDPWPPARVPPP PLLRLPQRRTAGRTPVDAPARG IFTLSLSSSHSKSSGKHRGARKT PEMWPLFRGSLSKLSRRRKVSP SAALHWRLRRTQKRLCC
25331	55699	A	25471	92	1083	TMRTHGHRKGNITPWGLSGVG GL/ETGRALGEIPNVDEGLMGVI AAVAIVLVSLLFVMLRYMYRH KGTYHTNEAKGTEFAESADAA LQQRERALDSSRDSHLETGAC PGRNGGGLALQEATPRDPGRR WPPQRPPFAPRRWEKIWAHGPI GSAGQHQLTGRKVLVEGLGCI CMAHTDLQNTSVAKMAINRPN EYAQVSLENDVCKVKAVQAP QRLHWPSVDADTGGRGAVHIA FPKHVEPETPFAHTIPARNSWT KWSSEHILETLSPQKPALPWAP RQQGRPLGLTAPISKRLGPGDG PEGEAGERLAQAHFINTRPPST GPPGTPAAD
25332	55700	A	25472	73	424	RPGMWSTRSPNSTAWPLSLEPD PGMASACTTMHTTTIAEPDGP MSGWPDGRMETSSPTIMDIVVI *CAIAAEAIVLVSLLFVMLRYM YRHMGTYHTNEAKGTGVADS ADACPAGDPA
25333	55701	A	25473	139	546	RPGMWSTRSPNSTAWPLSLEPD PGMASASTTMHNYHHCRSLIPG MSGWPDGRMETSTPTIMDIVVI AGVIAA\VAIVLVSLLFV\VAL TCNRA/HRGTYHTNEAKGTEF AESADAALQG\DPAL\QDAGDS SRK\EYFI
25334	55702	C	25474	142	408	

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25335	55703	A	25475	44	727	ARAGSRSRGLPFCGTAGPPPKA TLWGGLLRLGSLLSLCLALSV LLLAQLSDAANNFEDVRCKCIC PPYKENSNGHIYNKNISQKDCDC LHVVDPMVPVGA\NVEAYCLR CECKYEEVRSS\STIKVTIIIYLSIL GLLLALYMVYLTLEVPIKRRLF GHAQLIQSDDDIGDHQPFQKCT RCASPLPQFEPTCWNKVEYAQ QALESFQVQEQRKSV\FDRACC PQLNLGN
25336	55704	A	25476	11	1323	VVLLVSVNTEAESEKAATEQR /PLEGTDQTL DVEEEQEESKAA ACGSKKRVPVPGIVYLGHIPPHF QPLHVRNLLSAYG/RSPSHYDL WNLKYLHHFTWSHHSEHLAFE RQVC\HRQHLRVEVTQAKCETI FYLQSVWGCFLAVDGD LAH PDGSWTFAQRPTQEQLRARKA AQPVGKVLNYYPTQLSLECEVP SQPMGTGHSRGLCQDVKVIN VPVSFVWCALVAGLLVVVPPPP PQAPEAEVSDISLKRGLQREIEQ CRRDIQNFPPCASEELASQLFP LMEVPQGRGTTGFMNAPLTTS EVRGLKKELKPLLDDPERVAEQ IDQFLGSKLYTWTELM SILGILF SKEERNMICRAAMGAWERDYP AGQNIPAADVTFPARDPQWNN NNAAHQKNMRDLQELIIGIKE SAPRPQNLTKAFDEQEQEKDEGP
25337	55705	A	25477	1	490	GTSGTRPLVSVNMEAESEKA\ ATEQEPLEGTEQTL YAEEEQEE SEEAACGSKKRVPVPGIVYLGHI PPRFRPLHVRNLLSAYGEVGRV FFQAEDRFVRRKKKAAAAAAGG KKRSYTKDYTEGWVEV\RDTR\ IAKRVA\AALLK*PMGARRRSP FRYDLWNLKYLHR
25338	55706	A	25478	2	574	

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25339	55707	A	25479	160	1548	KTSSQTLSLALTMFQRLNKMFBV GEVSSSSNQEPFNEKEDDEWI LVDFIDTCTGFSAEEEEEEEDIS EESPTEHPSVFSCLPASLECLAD TSDSCFLQFESCPMEESWFITPP PCFTAGGLTTIKVETSPMENLLI EHPSMSVYAVHNSCPGLSEATR GTDELHSPSSPSILPNKM LSVHV GTAIHNQAALCQSVESYWQCGI QLLTQFQSQSKLGQLLAATCKE LPGPKESRRTAKDLWEVVVQIC SVSSQHKRGNDRVSLIKQRES TLGIMYRYVLEPLVLTILSLFV KLHNVRDIVNDITA EHISIWPS SIPKKQMSSRTFMSQEETVCRA AHTPSLP EEWVEQLIYALVVA AARIMAMWGPNAAWLVFLAA AGPPPLTPPHSP/PPPPPALGR WMGPPLRDSASGLPRPPPGRISE DSGAWACGPALCPRAIPSPAP ALRVPEALRLWGTCSV
25340	55708	A	25480	1	380	FTSPKTARNWGWLMQVRNQR LVLGKAGGKKGSPLEQRGGNG HHGGTRLICALVLVS\MRPLAT FAEPQTETCTVAPRERQNCGFP/ GVSRRPQCANKGCCFDDTVRG VPWCFFYPNTIDVPPEEECEF
25341	55709	A	25481	3	2367	
25342	55710	A	25482	2	1230	WRRSRRRRPPAPQAGGGDFRA GISPPTGKKS LGLMEPQGNHYR CRCLQVAGSQAWARCVSMPEL VVQKVVGHP/LVLLSVVDHFNR IGKVGIOKCVIGLFWGSWQKK VLDVLNSFAVPFDEDDKDNSM WFLDHDYLENMYGMFKKVNA RERIVGWYHTGLKIHKNGITIN ELMKRYYPNSVLIIDVNP KDL GLPTEAYISVEEIQDDGTPTLKT FEHVTSEIGAESYLEKVATGKL RINHQIIYELQDVFNLLPDVSLQ EPIKAFYLR TNDQM VVVYLASL IHSVGLTDPFCVALHNLINNKI ANQDGDKKEGQEKES/KKDR KADKGD KDKDKESDV KKEQK NHCLKEKYRFRQDSL PDDPRVL GLELTPPVARQYSPQDLSEIPRH ADFRCDPAHFQLWWSQGETPS

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25343	55711	A	25483	3	1042	DRYCCRCLRVAGSQAWRAGC VAMPELAVQKVVVHPLVLLSV VDHFNRIKVGNGKRVVGVLL GSWQKKVLDVSNFAVPFDED DKDDSVWFLDHDYLENMYGM FKKVNARERIVGWYHTGPKLH KNDIAINELMKRYCPNSVLVIID VKPKDLGLPTEAYISVEEVHDD GTPTSKTFEHVTSEIGAEAEAEV GVEHLLPDIKDTTVGTLISQRITN HVVHGLKGLNSKLLDIRSYLEKV VTG\KLPINHQIIYQLQDVFNLL PDVSLQEFVKGFYLLKTNDQMV VVYLASLIRSVVALHNLINNKI ANRDAEKKEGQKEESKKDRK EDKEKDKDKEKSDVKKEEKKE
25344	55712	A	25484	257	1566	GLEHLNPNRWPLLFLRAMDST VPSALELPQRLALNPRESRSP EEEPHLLS/SLAAVQTLANVIRP CYGPHGRQKFLVTMKGETVCT GCATAILRALELEHPAAWLLRE AAQTQAENSGDGTAFVLLTE ALLEQAEQLLKFGFLPRPQLR/EA YATATA/EEKQVGQL/AAAGIN VAVVLGEVDEETLTLADKYGI VVIQARSRMEIYLSEVLDTPLL PRLPPQRPQKQCRVYRQELGD GLAVVFEWECTGTPALTVVLR GATTQGLRSAEQAVYHSIDAYF QPCQDPRLIPGAGATEMALAK MLSDKGSRLGPNPAFLAFAR ALKYLPKTLAENAGLAVSDVV AEMSGVHQGNLLMGVGAEGI INVAQEGVWDTLIVKAQGFRA VAEVVLQLVTVDIVVAKKSPT HQQIWNPDSSKTKKRPPPVEK

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25345	55713	A	25485	145	1918	PLEYFQRSVSGVPQLLFLEHLC NPRWPLLSLRAMDSTVPSALEL PQRLALNPRESPRSPEEEPHLL SSLAAVQTLASVIRPCYGPGR QKFLVTMKGETVCTGCATAILR ALELEHPAAWLLREAGQTQAE NSGDGTAFVLLTEALLEQAEQ LLKAGLPRPQLREAYATATAEV LATPLSLAIQSLGPLDPSWALH SVMNTHTLSPMDHLTKLVAHA CWAIKELDGSFKPERVGVICALP GGTLEDSCLLPGLAISGKLCGQ MATVLSGARVALFACPFPAH PNAPATARLSSPADLAQFSKGS DQLEKQVQGLAAAGINVAVV LGEVDEETLTADKYGIVVIQA RSWMEIYLSEVLDTPLLPRLP PQRPQKQVRVYRQELGDGLAV VFEWECTGTPALTVVLRGATT QGLRSAEQAVYHGIDAYFQLC QDPRIPGAGATEMALAKMLS DKGSRLEGPSGPAFLAFWAL KYLPKTLAENAGLAVSDVMAE MSGVHQGGNLLMGVGTGGIN VAQEGVWDTLIVKAQGFRVA EVLQLVTVDIVVAKKSPTHQ EIWNPDSSKKAKKHPPVETKKI
25346	55714	B	25486	1	642	
25347	55715	A	25487	3	395	FLPVNLTHDWQGSSALATLERP LSQVRLKRFVGTLIAFMVSAIVI LATASMAVASITESVQTAAFD NMARNVSNKLLLQGGIDQKIL ALLQSLEAALEYVGEQQDALA FQQQ*NCNNGHKKHICISLPWN
25348	55716	A	25488	3	358	HEPMCGETHQALQGAMEKLW SRFMELMQE/KKVDLKERVEEL EHCCI*LSGERQTPSGSGKPGHG KESCTLVRGAPASESCPPAGEYI ALYQSQRAVRKEEECISRLAQD KGEVKVKLLE
25349	55717	A	25489	1	250	VQCGGIPPGQNNKEEMEVLP PPPINRKKDKSYATAMGPFLRQ EALSGELLACLVIQD*QGNWV YKPISFNIYKKLRKSIRG
25350	55718	A	25490	1	702	
25351	55719	A	25491	1	252	
25352	55720	A	25492	1	122	LAPLVITYFSSLSLGGFFNLKGL APSSWRC*GLNEIRGKH
25353	55721	A	25493	3	505	

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25354	55722	A	25494	1	3345	MRVGFRDIVGSLSEYSFGCPVN YEVFHSVWITILCCLMANDRKP QFLYFFQFFSFHGGRNLMSSFH PGNGHNSRRSVFYANEKWEF LDPTPKDLEESIVQEEKKEPTPE GNKVSQRLKNLPHTSLKAKQL LQTSSTNRGTVITATRLAFDLRT QSTKCSHPASGSSGHSTDFQLE GEWGLWDLGTKGFKLPYSLSI DIDNVKSPHPHELKTLTVSLGS NRRMGLEKKECHKQKGALREQ LQVHIQNVEILVSE
25355	55723	A	25495	296	1350	TLWLQGEQPSTQEIHEKV/LNE AMGAMMYHTIILTREDLEKFK APRVIVQIGSGYDNVDIKAASE LGIAVCNIPSAAVEETPDSTICHI LNLYQRNTWLYQALRGQAVA VRAKAFGFSVIFYDPYLQDGIE RSLGVQRDLLYQSDCVSLHCN LNEHNNHLLINDFTIKQMRQGAF LVNAPHGGLVDKKALAQALKE GRIRGAALYVRESEPFSAQGP LKDAPNLICTPHTAWYSKQASL EMREAAA TEIRRAITGHIPESLR NCVNKEFSVTSAPWSVIDQQAI HPELNGATYRYPGIVGVAPGG LPAAVEGIIPGGIPVTHNLPTVA HPSQAPSPNQPTKHGDNREHSN
25356	55724	A	25496	694	1185	PKPFKEGTIRGAALDMHESEPF SFAQGGLKNAPNLICTPHTAWY SEQASLEMREAAA TEIRRAITG CIPESLRNCVNKEFFVTSAPWS VIDQQAIHPELNGATYRYPGIV GVVAPGGLSAAMEGIIPGGIPV THNLPTVAHPSQAPSPNQPTK* MK*KQMGEVA*GAARIRGETL GLNGFGCTGQA/VAVRAKAFG FSVIFYDPYLQDVVERSLGVQR VYTLQDLLYQSDCVPLHCNVN EHNHLLINDFTIKQMRQGAFLP PKPFKEGTIRGAALDMHESEPF SFAQGGLKNAPNLICTPHTAWY SEQASLEMREAAA TEIRRAITG CIPESLRNCVNKEFFVTSAPWS VIDQQAIHPELNGATYRYPGIV GVVAPGGLSAAMEGIIPGGIPV THNLPTVAHPSQAPSPNQPTKH

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25357	55725	A	25497	290	1251	PFMLYVSISTLYIAFCHILNLYR RNTWLYQALWEGTRVQSVEQ MGEVA*GAARIRGETLGLNGF GCTGQA/VAVRAKAFGFSVIFY DPYLQDVVERSLGVQRVYTLQ DLLYQSDCVPLHCNVNEHNNH LINDFTIKQMRQGAFLVNAARG GLVDEKALAQALKEGTIRGAA LDMHESEPFSAQGPKNAPNL ICTPHTAWYSEQASLEMREAA ATEIRRAITGCIPESLRNCVNKE FFVTSAPWSVIDQQAHPPELNG ATYRYPGPGVGVAPGGLSAAM EGHPPGIPVTHNLPTVAHPSQA PSPNQPTKHVDNREHPNEQ
25358	55726	A	25498	1	1538	MLLQKTQFEYAFKKKRKLEES KKRGAGPASSDPRWRGSSQTA PHASEVSGAPLGRSCETTRDTG VGPSPRQWLGAAGTWQHRA RAASTPSSRGLRALQWGGGE VMNGPLHPPPPRVALLD/SRNC TVEMPIPKDLATMAFCDDHSTQ EIHEKILHEALGAMRYHTITLA RADLEKFKALGVIVRIGSGYDN VNIKAACELEIAVCNIPSAAVEE TANSTICHILSLYRRNTWLCQA WARKHVCYSMGQIREVALGG AHIGGETQG\LIGFGSTGQAVPV RAEAFGFSVIFYDPYLQDGIERS LGVQRMSQGAFLVNAARGALV DEKALAQALNNGKIR/GAALDV PQSELFSAQGSLEMREAAATE IRRTITGCIPESLRNCVNKEFFVT SAPWSVIDQQAHPPELNGATYR YLPGFVCVAPGGLPAATEGIIPG GIPVTHNLPTVAHPSQAPSPNQPT KHGDNPEHPNEQSRECRKVII QIHLRPRDSEKLMNSEKTNLTV FLADSGHMHY
25359	55727	A	25500	1	2595	
25360	55728	A	25501	561	1023	SGHDAYREQIQEYRVISLLNP N\DHVNKCQSTNDAYPTGFRIA VYSSLIKLVDAINQLREGFERK AVEFQDILKMGRITQLQDAVPM TLGQEFRAFSILLKEEVKNIQRT AELLLEVNLGATAIGTGLNTPK EYSPLAVKKLALKSLAFVGNLF
25361	55729	A	25502	2	227	
25362	55730	A	25503	262	428	

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25363	55731	A	25504	389	2310	ATSGPPGRSLGSACTIWVLVWT GSIPIYSFHGKVEKYMCFHNMS DDTWSAKVFFPLEVFGFLLPMG IMGFCCSRSIHILLGRRDHTQD WVQQKACIYSIAASLAVFVVSF LPVHLGFFLQFLVRNSFIVECRA KQSFISFFLQLSMCFNSVNCCLD VFCYYFVIKEFRMNIRAHHRPSR ATEEVSKNLVAMKEILYGTNE KEPQTEAVAQLAQELYNGLLS TLVADLQLIDFEASLGLHGLEQ AVDLALPIAQAQGEVLNNGKC MDQFPVDVYQGGAGTYVNMS TNEVLANIGLGLMGHQKGEYQ YLNPNHDVHNKCQSTNDAYPTG FRIAVYSSLIKLVDAINQLREGF ERKAVEFQDILKMGRITQLQDA VPMITLGQEFRAFSILLKEEVKN IQRTEALLLEVNLGATAIGTGL NTPKEYSPLAVKKLAEVTGFPC VPAEDLIEATSDCGAYVMVQG ALK\RLAVKMSQ\ICNDLRLLS GPPGASSIMPAKVNPVPEVVN QVCFKVIGNDTTVTMAAEAGQ LQLNVMEPVIGQAMFESVHILT NACYNLLEKCKINGITANKEVCE GYVYNSIGIVTYLNPFIGHHNG DIVGKICAETGKSVREVVLERG LLTEAELDDIFSVQNLMPAYK
25364	55732	A	25505	133	375	
25365	55733	A	25506	3	505	ARGREGVSRRRERPLLSARRLGA EWD\$AGAETASGLQVPRLGGS WPQTSVFSAAVKARGCRIATLP MDLIGFGYAALVTFGSIFGYKR RGGVPSLIAGLFVGCLAGYGAY RV\SNDKRECKKCHWFTAFLPG LPSMGVRFKRSKKIM\PAGLVA GL\SLMMILRLVLLLL
25366	55734	A	25507	244	696	

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25367	55735	A	25508	1	1442	MGQLHQAQASADIATSRLQQT SLTDVTRHQQFFSTYNTDDFIQ FTATYREQTRRRQRQYAVNH VTFFFGKCTFRDRHRHRVIGIVL NIGLTFPAHQTDGIGSTRSQR QSRLVANKVATRNLVKHFDDD REANRGIEAQTEHHHRGVLV NESRQRFGCQQHNRHRNHYRR HHHRQMVNHPYCSNYRIQRED GVKDDNLCDDHPETGIQLYASL LLQVFFFAANIYGWYAWSRQT SQNEAELKIRWLPLPKALSWLA VCVVSIGLMTVFINPVFAFLTR VAVMIMQALGLQGVMPPELQA DAFPVWDSCMMVLSIVAMILM TRKYVENWLLWVIINVISVVIF ALQGVYAMSLEYIILTFIALNGS RMWINSALIHQVVLDLIQQGIVI VWRDHLHMQRLLHRLAYHPC MYLVHIADFRDFPAHTRI.QVQ RFPAPVHLQVIHSRYLSTVATR YAEEATPVSGALGLLCPTLPIV
25368	55736	A	25509	133	375	
25369	55737	A	25510	2	471	AFAQRETAGRVRVGQRWCGDCF RTPGTALGGSWPQTSVFSAAV KARGCRIATLPMDLIGFGYAAL VTFGSIFGYKRRGGVPSLIAGLF VGCLAGYGAYRVASNDKRECK KCHWFTAFLPGLPSMGVRFKRS KKIMPAGLVAGLSLMMILRL VLLLL
25370	55738	A	25511	3	432	NSRVDDFVAAQDAKGKKVAP APAVVKKQEAKKVVNPLFEKR PKNFGIGQQRLLARA EKKAAG KGDVPTKRPPVLRAGVNTVTT LVENKKAQLVVIAHDVDPIELV VFLPALCRKMGVPYCIK GKAR LGRLVHRKTCTTVAFT
25371	55739	A	25512	59	882	SRLKNASIFVASPSGKKAKGKK VAP/APAVVKKQEVKKVVNPLF EKRPKNFDIGQDIQPKRDLTSFV KWPLYQRQRAILCKWLKVP EINQFTQALDHQTAALLLQLAH KYRSETKQEKQRLLALAKKK AAGKGGIPTKRPPVLRAGVNTI TTLENKKAQPVVIAHDVDPIE LVVFLPALCHKMRVPYCIKGE ARLGRLVHRKTCTTVAFIQVNS EDKGALAKLVGAIRTDYNDRY NEIRRHWWGGNVLPKSVACIG KLEKAKAQELATKLG

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25372	55740	A	25513	1	833	GTRPKMPKGKKAKGKKVAPAP AVVKKQEAKKVVNPLFEKRPK NFGIGQDIQPKRDLTRFVKWPR YIRLQRQRAILYKRLKVPAINQ FTQALDRQTATQLLKLAHKYR PETKHEKKQRLRLARA EKKAAG KG\DVPTKRPPV\LRAGVNTFT PL\VENKKAQLV\IAH\DVDP RGWLSFLPAL\CRKMGVPYCIK GK\ARLGRLV\HRKTCTTVAF QVNSESQRLWAKLVEAIRTN YND\RYDEIRRHWWGNDLRPK\ SVARI\AKLEKAKAKIELATKLG
25373	55741	A	25514	1	1176	MEKELVDHTGLFLSAHASEAL ALKLMIYSEVAHKLRAVRSQH PDMGVSLPLTPANSCPKTIERM RRSRELEREKDQSIETHLPWA FGSTFLKTPLSCKTLMKYICYA FIINLSFVKGVSAVTLMMSEES NMQM QFSVSITSGFGPFKSHIA AIPNAERKESQGEKMAPAPAVI KKQEAKKVVNPLFEKRLKNFGI GQDIQQRDLTRFVKWPHYIRL QRQRAILSAHKYRPETKQEKK QRLLAQAKKKATSK/EDIPTKR PPVLRAGVNMVTTLVENKKAQ LVMTAHDVDPIELAVFCLPAPC CKKGV PYCIK GKARLGHLVHR KTCTTVVFTKVNSDKGALAK LVEAIRTN YDRYDEIHCWGG NVLGLKSVAHIIKLEKAKVKEL
25374	55742	A	25515	2	524	
25375	55743	A	25516	144	412	AGSCPFAAGPGLGSGRCFVLIR FILIQRNAGKTRLAKWYMQFD DDEKQKL\EEVHAVVTVRDAK HTNFVGVSGTFKIILPPLWLASN
25376	55744	A	25517	38	476	
25377	55745	A	25518	235	892	RSRVGTNRLFGETYPRASPGPQ STALLTAYKKMTDLVAVWDV ALSDGVHKIEFEHGTTS GK/REV VYVDGKEEIRKEWMFKLVGKE TFYVGA AKTKS/ATINIDAI SGF AYEYTL EINGKSLKK\YMEDRF KNPPILWVLHM\DG\ENFRIVLE KDAMDVWCNGKKLETARDFC KMSDTISDDTKVDEQERALSRT PEDKWNFRPAVPMRGERGSPS HCGQAH

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25378	55746	A	25519	1	1233	MQLKFPGRQKIHISKKWGFTKF NADEFEDMVAEKRLIPDGCGV KYIPNRGPLDKCHHGKCVATG TSYMCKCAEGYGGDLCDNKN DSANACSAFKCHHGQCHISDQ GEPYCLCQPGFSGEHCQQGLLG GVREMLRCKVRSNIVTMKAKL SFRICMTLTILANMWPRPILGG VDQIPIKPKSKVLVYLGAAAGTT VSHVSDIIGPDGLVYAVEFSHR AGRDLVNVAKKRTNIIPVLEDA RHP/HQPDQ\ARSVALNAHTFLR NGGHFLISIKANCIDSTASAEAV FASEVRKLQQENLKPQEQLTLE PYERDHA VVDYSSSSATEQRRT ENDSDKLTEVGFRKLVINFSKL KEDVRTHHKEVKNLKRLDEW LTRINSVEKTLNDLMEAHNGT KKYVTQAQASVAYLIKWKKG
25379	55747	A	25520	78	978	AAGHSAKKSCLSLPAWSFPLG STRAQWHVRRQLQARISGGGRH RCGRRGQ\GKTRRRMGPMVVS VEPHRHEGVFIYRGAEDALVTL NMVPGQSVYGERRVTVTEGGV KQEYRTWNPFRSKLAAAILGG VDQIHIKPKSKVLVYLGAAAGTT VSHVSDIIGPDGLVYAVEFSHR AGRDLVNVAKKRTNIIPVLEDA RHPLKYRMLIGMVDVIFADVA QPDQSRIVALNAHTFLRNGGHF LISIKANCIDSTASA\EAVFASEG EKLQQENLKPQEQLTLEPYERD HACVVG VYRPLPKSSSK
25380	55748	A	25521	230	314	QMPGNNPAFSA*CDAGASYQA YVNSAIY
25381	55749	A	25522	1360	1848	RFRALV/TEGFSRLRFPVATVL VASSTVTKRFIFLLAADVRLA LRRSITHPFVRKQELTVYTLNN ELENLLTNVVNQAQGGKVML DSVPVDPNMLNQFQSTMPQVK EQMKAAGKDPVLLVPPQLRPL LARYARLFAPGLHVLSYNEVPD EELKIMGALM

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
25382	55750	A	25523	91	1184	AAACSPPPPARLTYGSETLRGG DCSKMAAGCCGVKKQKLSSSP PSGSGGGGGASSSSHCSGESQC RAGELGLGGAGTRLNGLGGLT GGGSGSGCTLSPPGCGGGGG GIALSPPPSCGVGTL\LSTPAAA TSSSPSSSS/APASSSSPGSRK\M VVSTE\MC\CFCFDVLYCHLYGI \QQP\RPPRFTNEPYPLFV\TWKIG RDKRLRGCIGTFSAMNLHSGLR EYTLTSALKDSRFPPMTRDEL.P RLFCSVSLLTNFEDVCDYLDWE VGVH\GIRIEIHQCKKASKR\TA TYLPEV\AKEQGW\DHQ\TIDSL RKGGYKAPITNEFRKTIKLTRY RSEKMTLSYAEYLAHRQHIIHF QNGIGDPLPAYNHYS
25383	55751	A	25524	3	154	
25384	55752	A	25525	575	1707	TALLTQSLFGGGLFTQTHMKFG AVTRI*NRKTGNSKKQSTSPPPK ERSSSPATEKSWMENDFDEIRE EGFRRSNYSELREDIQTKGKEV ENFERNLEECITRITNTEKCLKE LMELKTKARELCEECSLRSRC DQLEDCLLKKLHSHQANPEFDL ITEHLTLCIRISIQIKAYLSLSKA QSSLSHRPPTYLAYLFNGFRLF KNLKAYLHPGEINSFIAHTKPV WWSLHTDAHEIWCRDSDLKLV PTLPLIPLEAALRNITHSLSIPPP KNFRRPNTSTLFCVIFLINIRRQE YQASEPKPSHRIPCDLQRIKYLG IQLTRDVKDLFKENYKPLRNEI KEDTNKWKNI PCSWVGRINIVK MAILPKPLLVIPRQTGSGMDPQ QTSGDLQKCLTVLRKTNKQKAI ASTSRKRTMQKLHLKEKLINS KDQRTNDKNHMIISIDAEKAFN KTEHRFMLKTLNKLINSRWIK DLNVKPKTIKTLEENLGNTIQDI VMDKDFMTKTPKAMATKAKI DKWDLIKLKSFACTAKETIIRVY RQPTERESIFVIYPSDKGLISRIY KELAI PGKGNSSNVSKDSKMSK HQM MQENKHD

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25385	55753	A	25526	110	569	TALLLTQSLFGGLFTRTRMKFG AMTRIG\DL PWEINPLSSCSLLC EKHPPTTSGPQTDQPKKHLTNF KSETKETCFIHEPKTLAPVTDW EGSLPLVFNHCRDGLSDHSATF QGCQTMQGCLPWSFTLSGKSR FSGEGANHHGHRASGNSHSGS
25386	55754	A	25527	2	464	LFGGLFTRRRMKFGAVTRIR\DF PWEINPLSSCSLL/CEKDPRTTS GPQTDQPSKHLTNLKSASTPPP YNPFITSPPHTRSGLQFRSTSSPP APAQQFTLKKVAEAKGIVKVN APFSLSDLQSIVRLGSFIKYEKS SPVHGSFGSNPETLYSPRP
25387	55755	A	25528	162	206	
25388	55756	A	25529	74	446	TAMLLTQSLFGGLFTWTRMKF GAVTRIG\DL PWEINPLYSCSLL SRFKKIKACYHSPATSWPFKTY KLSLQLPHFTCPKTRQALQVSS GAVPYQPNCFA YPPCGAQPVP FVLNTFLHNSLCRA
25389	55757	A	25530	66	311	FGAVTRIG\DL PWEINPLSSCSLL REKEPPTTSGPQTNQAKKHLTN FKSGACYTCRKSGHWAKECPQ PGIPPKPRPICVGP
25390	55758	A	25531	728	825	MKFGAVTRIG\DL PWEINPRSSC SLLHEKDPPM
25391	55759	A	25532	291	311	TALLLTQSLFGGLFTQTHMKFG AVTRI*NKKNNTK
25392	55760	A	25533	1	1056	
25393	55761	A	25534	245	487	TALLLTQSLFGGLFTQTRMKFG AVTRIG\DH PWEINPLSSCSLFQ EKDPPTT/SGPQTDQPKKHLTNF KSTSFVFSSCIPPP

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25394	55762	A	25535	818	2391	TALLLTQSLFGGLFTQTRMKFG AVTRIG\DIPWEINPPSSCSLFLP/ RLPLLHFPAGPSTPQPLL/HSPS AASPAFLGQGQDLINLVFKVYN NRKKLQFLASTVTQTPATSPAH KNFQTPEPQQPGVPPEPPSPGAC YKCQKSGHQAKECPQLRIPHLS YAWTFNDNPLYVQEDNRRFVS QETGNLYIAKVEPSDVGNVYTCF ITNKEAQRSVQGPPTPLVQRTD GVMGEYEPKIEVRFPETIQAAK DSSVKLECFALGKIDDSIREKG AIRIKPSSILMRCNCLVQSPILVG EGWTGARCQKSSSTANPKLSL KSRTSNKKMKAFMSALQATFE EETLQRVNSFFMHNVLNCLLP NSGTCLFETAPPEWEQKIQNTH LSIYDNLLWECKASGKPNPWY TWLKNGERLNPEERIQIENGTLI ITMLNVSDSGVYQCAAENKYQI IYANAELRVLGSQLVHFRENGT CLSDEVIRDSDFMSGMTVVHAF TSGSQGTTTENQDELQIKFISAR HSQATEGINSTSAKFD
25395	55763	A	25536	425	749	IASLLTQSLFGGLFTWTHMKFG AVTRT/RGDLPWEINPLSSCSLL HEKDPPTTSGPQTDQPKKHLTN FKSAQLKASGK/DLQKPYQHFAQ TLQQLLPLQWAPCYGPSSVSI

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25396	55764	A	25537	2	2204	IDMIFTPGPPSTPKHKKSQKGS FTFPSQQSPRNEPYVARPSTSEI EDQSMGKFKVVERQVQDMG KKLDFLVDMMHMQHMERLQVQ VTEYYPTKGTSSPAEAEKKEDN RYSCLKTIICNYSETGPPEPPYSF HQVTIDKVSYPYGFFAHDVPNLP RGGPSSGKVQATPPSSATTYVE RPTVLPILTLLDSRVSCHSQADL QGPYSDRISPRQRSITRDSOTP LSLMSVNHEELERSPSGFSISQD RDDYVFGPNGGSSWMREKRYL AEGETDTDTPFTPSGSMPLSST GDGISDSTVPLFLSSEILKQVVG QSITSMGLFSLRGPSMKLCMGL ACVLSLWNTVSGIKGEAKKEK GMTFLPTTDSKKFFSLLSVTSYS SFAFHKFSVAVYNISNLKTVDP AKFPTRYCYCLNNRTNDLSDFT ALLVDIIGNSTSYLTEIFKSTSIL SVNQSNESDCIFICVMTGKSGR NLSDFWEIEEKYPIINYTFTSGL SGVLALLLTQSLFGGLFTRTRM KFGAVTRIG\DLWPWEINP/LSSCS LLHEKDPPTTSGPQTDQPKKHL TNFKSAARPTFLGQGQVPLNPF SFTLSGKSCFPRRQEPNRLFPH PNLLSLCPNPLFLCPNPFSTFLE GKNHHPHPFSVSQVFSGLLPPS LWEHSPMAHRLRVQPRQQPPDI HKQVISLQSGHSLLVKSQSWSQ DPIKFQLPHHHKNTASVCINPSV
25397	55765	A	25538	110	542	TALLLTQSLFGGLFTRTRMKFG AMTRIG\DLWPWEINPLSSCSLLC EKHPPTTSGPQTDQPKKHLTNF KSETKETCFIHEPKTLAPVTDW EGSLPLVFNHCRDGLSDHSATF QGCQTMQGCLPWSFTLSGKSR FSGEGASCSLPG
25398	55766	A	25539	1	781	MPLQPLATPFTSPGSPSVAQVT TNTGEPGFAQQEYAETPQTAR PPHPHPALRALQASVHQTPRLG DCLGSSSATALHSGGEPNKL PPGRPTERGGLFKCSVPLRTVR GCRAGLRGTTETVPSSLQRQPAG DVGWINNKSTTALDRTPTDTQ RTRRPRPPKQKQGRALKERPR DSDSAREGPLKAVAGLFGGLFT RTCMKFGAVTRIG\DLWPWEINPL SSCSLLHEKDPPTTSGPQTDQPK KHLTNFKSDLLSLATED

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
25399	55767	A	25540	1571	1781	TALLLTQSLFGGLFTRTRMKFG AVTRIG\DLPWEINPSSSCSLLRE KDPPTTSGPQTDQPKKHLTNFK SA
25400	55768	A	25541	2150	3195	TVLLLTQSLFGGLFIWTRMKFG AVTRIG\DLPWEINPLSSCSLLH EKDPPTTSGPQTDQPKHLTNF KSDDED
25401	55769	A	25542	4688	5149	TAMLLTQSLFGGLFTRTRMKFG AVTR\IRGTDLPWE\INPLSSCSL LREKDPPMTSGPQTDQPKKHL TNFKSGACYTCWKSQHWAKER PQPGIPKPRPICVGPLKIRTCS THLGQATPRAPGTLAQGSLTDS FPDLLGLAAEDSHCLIASEAP
25402	55770	A	25543	1	433	MAAFPAALNRPTRARARRRRIS AHSAASAAA VV VAGTARGM VPGSEGP\CRA\GDEVADWEIVI EGTANLGPYFEGLRKHYPALPAI EYFNGGPPAETDFGGDYGGTQ YSLVVFN TVDCAPESYVQCHA PTSSAYEFVTWLDGIK
25403	55771	A	25544	1	235	
25404	55772	A	25545	1	301	
25405	55773	A	25546	2	438	
25406	55774	A	25547	1058	1494	KSVRLVVN/YLRTQKAVVRVSP EVPLQNILPVICAKCEVSPEHV LLRDNIAGEELELSKSLNELGIK ELYAWDNRRVPSAVPMQGPWP AEHFLQVNEQPPAGSPSPCPSSS SSSSGLRGGMQTANGPACALTP TCAQTDCPCPTSH
25407	55775	A	25548	1	3965	RRFQPLPSAALRRCPPPARVGG RWVSAEKVNEGSGGGGSQRL TRRARSTARVPAGTMDAPRAS AAKPPTGRKM KARAPPPGKA ATLHVHSDQKPPHDGALGSQQ NLVRMKEALRASTMDVTVVLP SGLEKRSVLNGSHAMMDLLVE LCLQNHLNPSHHALEIRSETQ QPLSFKPNTLIGTLNVHTVFLKE KVPEEKVKPGPKVPEKSVRLV VNYLRTQKAVVRVSPEVPLQNI LPVICAKCEVSPEHVVL
25408	55776	A	25549	1	388	

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25409	55777	A	25550	1	1748	MVLARVARRPAGSAEAQASLA GKAALPERARKMSSPGIDGDPK PPCLPRNGLVKLPQPNGLGAA SITKGT PATKNRPCQPPPPPTLP PPSLAAPLSRAALAGGPCTPAG GPASALAPGHPAERPPLATDEK ILNGLFWYFSACEK\CVLAQVC KAWRRVLYQPKFWAGLTPVLH AKELYNVLPGGEKEFVNLLQGF TARGFEGFCL\GVSDLDICEFI DNYALSKKGVKAMSLKRSTIT DAGLEVMLEQMQGVVRLELS GCNDFTEAGLWSSLSARITSL VSDCINVADDAIAAISQLLPNLA ELSLQAYHVTDTALAYFTARQ GHSTHTLRLLSCWEITNHGVVN VVHSLPNLTALSLSGCSKVTD GVELVAENLRKLRLSLDLSWCP RITDMALEYVACDLHRLEELVL DRCVRITDTGLSYLSTMSSLRSL YLRWCCQVQDFGLKHLALGS LRLSLAGETPVSA TLAVTTH PHLVHPPNLPGPCANSHPARTH SPGSEAE EGGGAARPSPEPWA ARTEPPSDPAAGCPLLTTTGLS GLVQLQELEELELTNCPGATPE LFKYFSQHLPRCLVIE
25410	55778	A	25551	1	377	MRRLTRRLVLPVFGVLWI/DGA AVLLGNQEEVGGAD/WDLKCR PL/EVNVSKSDDTLKINGVEDH KTIFDGDGKTYQNVQQFIDEGN YTSGDNHTL/SRPSLR*RQRP*IP CIRSQHGNRKRIPRRRIFI
25411	55779	A	25552	222	287	
25412	55780	A	25553	2	918	GHCEVN RDWLQPLLHRVKEDY TRVVC PVIDIINLDTFTYIESASE LRGGFDWSLHFQWEQLSPEQK ARRLDPT EPIRTPIIAGGLFVIDK AWFDYLGKYDMDMDIWGGEN FEISFRVWMCGGSLEIVPCSRV GHVFRKKHPYVFPDGNANTYI KNTKRTAEVWMDEYKQYYA ARPFALERPFGNVESRLDLRKN LRCQSFKWYLENIYPELSIPKES SIQKGNIRQRQKCLGISKGRTTK KPQT*S*ALCQGQRRRCQSPRV WGLSHYTQADSFQGELVALFSS FTFVSLGAPVVSCSFARMGD

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25413	55781	A	25554	84	2804	PRGSWRCRRDLKCRPLSHSDA DWDDLWDQFDERRYLNKKW RVGDDPYKPVCFSTSGRVSGSP AIRAIPDTRHLRKKATSNSLSRQ QLASPLPRSSYCGVTPGPIAIGP LWTSGSLRTPNHIDTVFAPGLP QPWFHLNYLRAMPSLSSAPKCT LLVYCTDLPTSHIIFHNEARST LLRTIRPPAVSTSQMAMTAAA LTPAPLRITYSVHLSCRAHQLVP MPQRKKYDETWVREHTKHSKI SLFPSCRLHFCLSRRRMAVGS GKQFQVMGDLGEPFLVRWLRI WTLGPDFHGSALNSVLNRITPT HLIREIILVDDFSNDPDDCKQLI KLPVKCLRNNERQGLVRSRIR GADIAQGTTLTFLDSHCEVNRD WLQPLLHRVKEDYTRVVCPI DIINLDTFTYIESASELRGGFDW SLHFQWEQLSPEQKARRLDPTE PIRTPHAGGLFVIDKAWFDYLG KYDMDMDIWGENFEMMTVQ VLQPRRSEALICTWKVHHLTRE STALLIALVQAPFTGPQAKKLQ QSPCPAMLAPEYAPEASVLVCT VSLTTYTTLQSEISFRVWMC GG SLEIVPCSRVGHVFRKKHPYVF PDGNANTYIKNTKRTAEVWMD EYKQYYYAARPFALERPFQNV ESRLDLRKNLRCQSFKWYLENI YPELRYPSYLLELWLAESRGPQ LAWSGEETDNDQLDEGFYVYQ

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25414	55782	A	25555	1	2439	MPLKKKGDEPQMEKYIQERSM LAPPCSDHRDTHSRCIPHIQRL FQCPLGPWFQGEQRNQARGEG GALHPLPVTAGTVALPGAAQPT PARGNVTESLQGATVKLVCKK TSFIFIYCQHPAQCLALACDHEC IDLCTHVASTSLCLRGYQGMKR TIERALTATLAQGTAVPPFPSDV PSQKDAAVRGKGDGSEWERTL TMKRSLNLSKILPAILLTEFP RHQSPCSFDKPHHPNTLGCWLP TVLETRGGTNGQSSGKREATLC PCPLLGLPISEEDCVPPALLLPPR G\LPPGLQLSWAPVPQFPPLGPS SLGIPA/LPLVLNLGCLPSLVCPP TSAHTSEVAPSLKSPAEPSPPAR LPRSHQPALSREMRHSDYSVSV HAICWDHDFYTLVTHYMNNTS PISSKRSSDKLNPHVLVVQDSM TILSLHNHLALAGQDMMVWEP RKTLQRRQQPDSSSHSPPALV ECHPLEPEPLVAGIMYSFSGLQ GVGLRDRAVDETNRNEKRTL EMSRVEALSSFENSEFGCPPSIN TREITGNSLEGNVKKGVSVPNC TAPGKRTEKKYSKIHVMKHS GNCKRTDGIWEEYGWSWRLH MKKVFPGFMLVKGGEDAAPGT KEIKSVSGIFQRGKKKPRGRKE KNRKKRGFAFSKETNFVYLLIL VCLIGKVVVWLTSACAEPKP HGEATCRHSGPSAPLNFQPTRV
25415	55783	A	25556	2	1178	AKCVEVCGKREPPMSPLNQSA EGLPQEASNRSLNATETSEAWD PRTLQALKISLAVVLSVITLATV LSNAFVLTTILLTRKLHTPANYL IGSLATTDLLVSILVMPISIA YTI THTWNFGQILCDIWLSSDITCCT ASILHLCVIALDRYWAITDALE YSKRRTAGHAATMIAIVWAISI CISIPPLFWRQAKAQEEMSDCL VNTSQISYTIYSTCGAFYIPSVLL IILYGRIYRAARNRILNPPSLYG KRFTTAHLITGSAGSSLCSLNSS LHEGHSHSAGSPLFFNHVKIKL VTVALKRKEDSAARERKATKIL GIILGAFIICWLPFFVVSLLVLPIC RDSWWIHPALFDDFTWVGYN SLINPIIYTVFNEEFRQAFQKIVP FRKAS
25416	55784	A	25557	3	146	

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25417	55785	A	25558	45	592	PSPPPPARAPSARTRRAPIPAAG QGRARPPRTVSRCSAAMATKI DKEACRAAYNLVRDDGSAVIW VTIKYDGSTIVPGEQGAHEYQHFI QQCTDDVRLFAFVRFTTGDM SKRSKFALITWIGENVSELQRA KTGTDETLVKEVVQNFANEYVI SDRKELEEEFIKSVELKKA VGAN YDAQTE
25418	55786	A	25559	249	1808	INGGTLTVTLSTVNQGAETLPF GTGWHYPYFPLSPQTRIQAQASG YWLEREQWLAGEFCEQLPQEL DFNQAPALPRQWVNNGFAGWN GQARIEQPQEGYAIIMETTPPAP CYFIFVSDPAFDKGYAFDFFCLE PMSHAPDDHHRPEGGDLIALAP GESTTSEMSLRAYNDTNRRSDK AFTPHPTCFPSNQNNASAPPTIT PDTATIAPVSHKAFAGNALRSII SDGKLTAGSVINNASAGAVPIP ASIIVCTIGISAAVGMTNKHPTAT AIDTTHIMLLSTAPSAWGNQNT RAAPNTSLLAA YRFLIDSRDTE TDSRLDGLSDAFSVFRCHSIMN CVSVC PKGLNPTRAIGHIKSML LQLPPNVEKFAGAYLIQFALFQ PLTHNRLMFFGAFADFLHADQ TFPGQITAAVKGQFVRRRLRFF AIISPSRTLS/YHTP*PRR*PR*SN FVTGRDAGRGLYNRQ*KTS/PS SICSA*GANPVVHHAMTVKFA* WQPIMKISSTSFPSMRPLSHMK TINGLTTFVAW
25419	55787	B	25560	1	567	
25420	55788	A	25561	1	741	MLILISPAKTLDYQSPLTTTRYT LPELLDNSQQLIHEARKLTPPQI STLMRISDKLAGINAARFHDWQ PDFTPANARQAILAFKGDVYTG LQAETFSEDDFDAQQLRMLS /GLPYRLEM GIRLENA\RGKDLY QFWGDIITNKLNEALAAQGDN VVINLASDEYFKSVKPKKLNAE IHKPVFLDEKNGKFKIISFYAKK ARGLMSRFIENRLTKPEQLTGF NSEGYFFDEDSSSNGELVFKRY EQR
25421	55789	A	25562	3	320	IGLVLPISVRKRHAASARCLVN RRPMPRLHGLPGIPMRPPSLPRV RHAGTVFRRHRKRGS PMAY*Y GHSDVVKHREALVADLCHKAA FQLCRGQRHCRPALWRHR

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25422	55790	A	25563	1600	1908	
25423	55791	A	25564	142	326	TRRAPSAISSRCCCNHQTSSKSS LVRTSSSLRSSSHLRTIA*CSSV HLPISCMQIRPSQAR
25424	55792	A	25565	1	1599	
25425	55793	A	25566	393	611	HSRAVCRFYPAKTSPFPVRRCK YRQFVPR*HQNE*AGRE*QPCSI ATVLPYRALPSLAHPRLSADQL PAAHL
25426	55794	A	25567	971	1628	
25427	55795	A	25568	3	1895	
25428	55796	C	25569	1	2505	
25429	55797	A	25570	1	3345	
25430	55798	A	25571	457	790	PSFRRRYRQVVVISVRKRHAAS ARCLVNRRPMPRLHGLPGIPMR PPSLPRVRHAGTVFRRHRKRGS PMAY*YGHSDVVKHREALVAD LCHKA AFQLCRGQRHCRPALW RHR
25431	55799	A	25572	1662	1767	
25432	55800	A	25573	3	603	RLRSLFFLPDKMKLKDCVMIKK IFALPVEIQISPVLSRRKLDEL DL IVVDHPQPPSGDYTLHPLPHIR ANRPNRFRINAGCTRTFTLSTPI NVFRHKILRTQEFPSLTHHAYSP LLVVINKAKFDGLSPEFQQALV SSAQEAGNYQRKLVAED/LAK NRRHERSGRGS/LSPISTAKPL ATHWGIRFATCLLKMCRRRELIC
25433	55801	A	25574	2271	2519	HRQLVIVFQQPLVSGFHEAELS LDDAKWVLHPARMLAFMYSM LMAVLFLRGCCFKVLTLPGRSA ISQSTSTSASSRCGAPW
25434	55802	A	25575	931	1213	
25435	55803	A	25576	1	2767	MAILSGLRCSIVANYIYAENNI FWLRLNNPKAIWCLRICTFATV IGGTLLSLPLMWQLADIIMACM AITNLTAILLSPVVHTIASDYI RQRKLGVRPVFDPLRYPDIGRQ LSPDAPLTTRYTLPELLDNSQ QLIHEARKLTPPQISTLMRISDK LAGINAARFHDWQPDFTPANA RQAILAFKGDVYTGLQAETFSE DDFDFAQQHLRMLSGLYGVLR PLDLMQPYRLEM GIRLENARG KDLYAQFWGDII
25436	55804	A	25577	395	467	
25437	55805	A	25578	1	675	
25438	55806	A	25579	1	4014	

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25439	55807	A	25580	1802	2385	RKISAPALIKSRTG*EMASLPTS/ HDKQIEQALADVDPVPIGVGGS YHLAESYPPVHYIATDNYALVE SAFLHLKEKGVNRFAYGLPES SGKRWATEREYAFRQLVAEEK YRGVVYQGLETAPENWQHAQ NRLADWLQTLPPQTGHIAVTDA RARHILQVCEHLHIPVPEKLCVI GVMNRRRTVRSPFRESLKISP
25440	55808	A	25581	1	1568	MVKQLKLVSFLLRPGDSKQGY DKHSSLQVGLMIPVCSCIRFRKP SEQSFKFEEGTDAAFHGFWLW PCTMLNVTPIKMMMTVIYEFPV DSETTLQNYDIYFTNEELTDEQ KSLIEWYRDVFRPEDLRLVESV QKGLKSRGYRGQGRIMADSSG SGISEHAWCMSRGAQGRQFCK GAKMSQVLITGATGLVGGHLL RMLINEPKVNAIAAPTRRPLGD MPGVFNPHDPQLSDALAQVTD PIDIVFCCLGTTRREAGSKEAFI HADYTLVVDALTGRRLGAQH MLVVSAMGANAHSPFFYNRVK GEMEEALIAQNWPKLTIARPSM LLGDRSKQRMNETLFAPLFRLL LPGIILLEELNWKTTWAERWNS MLGPRAVKVFFSLAFLPGTLEP AQILFPTQRQGKKAALLLGLW KLEIYSDNRRSPEVSTAWNSPP TGKLDNKQYMIMIPRKRETNTT TRGASNARLDPPSRKGYKGHY ETIGHALEHDKQSQGSYNVEHT IKRQTTPRVRRTCTSIAGIYQELG
25441	55809	B	25582	1	1560	
25442	55810	A	25583	1	2115	
25443	55811	A	25584	3036	3957	RIYDAVSEPAEPVDCPRNPVCR FY*QYRDHRGKTVYDVASGDA LFISELG/PLPENVTWLSPEGEFQ KWN/GTAWVKDTEAEKLFRIRE AEETKNNLMQVASEHIAPLQD AADLEIATEEEISLLEAWKKYR VLNSRAMALILTPDLIRSNTACF CSSFVLAGQTAKAAADDGLFPP IFARVKNAGSPVAGLIIVGILMT IFQLSSISPNAKTEFGLVSSSVI FTLVPLYTCAALLLLGHGHFG KARPAYLAVTTIAFLYCIWAVV GSGAKEVMWSFVTLMVITAMY ALNYNRLHKNPYPLDAPISKD
25444	55812	A	25585	1	2490	

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25445	55813	A	25586	368	761	LYCEACIMAFRMSEQPRTIKIYNLLAGTNEFIGEGDAYIPHTGLPANSTDIAPPDIPAGFVAVFNSDESSWHLVEDHRGKTVYDVASGDALFISELGPLPENVTWLSPEGEFQKCSGTTRVKNAKA*TLF
25446	55814	A	25587	1	809	MPVSSYERGHAEKRVVQECCGINLTSSANTILSDCERVNGYCVLCHTTRALVTGNHHRNAVYAETPSNSRINYIVSSHNAFRMSEQPRTIKVYNLLAGTNEFIGEGDAYIPPHTGLPANSTDIAPPDIPAGFVAVFNSDESSWHLVEDHRGKTVYDVASGNALFISELGSLPENVTWLSPEGEFQKWNGTAWVKDTEAEKLFRIREAEEETKNNLMQVASEHIAPL\QDAADLEIATEEEISLLEAWKKYRVLLNRVDTSTAQDIEWPALP
25447	55815	A	25588	1	2301	
25448	55816	A	25589	718	1131	
25449	55817	A	25590	279	513	CRRIDTWQPIYQTCGRLMAVELTIVVTHPLNPSQRLPPDRYFTEITV/SHRMEVVKEQIDLLAQKAFSLAYLSPCESGL
25450	55818	A	25591	1	407	PQDNAKKLRPHQLSSDEGHTGMGGTAKDVGFVSMRTYSWISSALPKRLGGGVMPIGATIATEEVFSVLLGNPFLHTTTFGGNPLACAAALATINVLL\GRTYRLRLSKKAICCWTVSVNWRGNIPIWYRKRVVKGC
25451	55819	A	25592	1	2079	
25452	55820	B	25593	1	700	
25453	55821	A	25594	1427	1845	ACISGFSTETSASGRVSVITDASLFRVLP RVCGMAVAATKRSGRIITSEALCCANQLRRRRCVSPTRSTPSWLSCAV*ICTSGTT*MKRVPNARHCWICSSLI PHSGLHPQPITAKFAPIALSSSVTSPFSSVTFG*IN
25454	55822	A	25595	2	295	
25455	55823	A	25596	1	900	
25456	55824	A	25597	1	1422	

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25457	55825	A	25598	2	535	YGNREQRAVSSHTNTWVNRAL ARGWSSLGYRWWVSAWTPSR RFISQLMSRPVDASAAKVKRSA SVPCGSIPFGNCFSVRLRILSASC GCILPVRFSSSSGSEIPSTISSGSI TLPLDLDFWPSSSRIRPVM*TV WNGTCGLPFSSLMKCMVIMIM RAIQKKMMSKPDITITLVGWN
25458	55826	A	25599	442	1368	RRTMAAFACGVVRDASEVIRPS STLVPLVGEKHAKGLFGTIVDN FYLVALIFAMGTSGLATPLVT ECMQWLFGIPHTLLGFI/LYNAI CVACGLQKGVRIASDVRSYLSF LMLGWVFIVSGASFIMNYFTD SVGMLLMYLPRLFYTDPIAK GGFPQGWTVFYWAWWVIYAI QMSIFLARISRGRTVRELCWIL WTVLGSNTLLLDKNIINIPNLIE QYGVARAHETWAALALNNGN MWGFFILWFIGPGLVNAWQNI RAQFVHHILRRNGIADGFRHLA ALTIHGKAVGQYLTIIRFTLHR
25459	55827	A	25600	2468	3907	
25460	55828	A	25601	3	3738	YKTNYTDNSEYYANVGFNVKP VKRDGKMSVMSDPDTAIYFPFP KPTPLSIDEKAYYREKIKRLLTE RNAVMVAHYITDPEIQQLAEE TGGCISDSLAMARFGAKDPASN LLVAGGGTCRSVVINAVFSYVT NVWGWAFEWYMVVMLFGWF WLVFGPYAKKRLGNPEPFSTA SWIFMMFASCTSAAVLFWGSIE IYYYISTPPFGLPNSTGAKELG LAYSLFHWGPLPWATYSFLSV AFAYFFFVRKMEVIRPS
25461	55829	A	25602	1331	1456	
25462	55830	A	25603	549	588	
25463	55831	A	25604	19	1629	

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25464	55832	A	25605	1	1995	MVGVRFALGLMWLTLIVAETIS ANSGIGYLAMNAREFLQTDVV VVAIILYALLGKLADVSAQLLE RLWLRWNPAYHLKEATLSAEQ AARIREMTVITSSLMMSLTVDE SDLSVHLVGRKINKREWAGNA SAWHDTPAVARDLSHGLSFAE QVVSEAHSAIVILDSRGNIQRFN RLCEDYTGLKEHDVIGQSVFKL FMSRREAAASRRNNRVFFRSGN AYEVENVPDPGVEQADDIILRIT ATAICGSDLHLRYRGKIPQVKHG DIFGHEFMGEVVETGKDVKNL QKGDRVVIPFVIACGDCFFCRL QQYAACENTNAGKGAALNKK QIPAPAALFGYSHLYGGVPGGQ AEYVRVLKGMWGRNLDAQPG FRSSRPLRYGAGIMTLLNISGLS HHYAHGGFNGKHQHQAVLNN VSLTLKSGETVALLGRSGCGKS TLARLLVGLESPAQGNISWRGE PLAKLNRAQRKAFFRDIQMVF QDSISTVNPQPNRLHIV/RFPLT RLNQYQPSFSTDLYHGTLKPAS LTMSGVVLLGRM/PRKTSQQV QWA\CIARTDKASMPTVYSESL FVEPLERVLYVAVILTQIIRGLR DTEIETINPDIAVHFALCFHGLG SIPTKGAEKSPFLTIHKVRVKPD IPSPVSIMAPCRAHPTCEALFNN STALHSPWFCDSL
25465	55833	A	25606	179	371	CVLQYTHWPACSTVAHSRRW* NRRRLRLAVTKTGSLSFHRACAG ARLAFSKKLRCRDALPASRS
25466	55834	A	25607	544	983	SVQNPRVNWIHAALQRTGRGR RRHEQHGEDHFVNGAAGVHQ AANGLVNPPRHQVFGAHQAKG DGENHRQRGAPDGLQRDGHF GEVILPLAEIGREEVGGERRHV AAVFDQ/S*AGPFRPATRRPTR RVQRPSSSEARTSCAWVGRW
25467	55835	B	25608	1	1746	
25468	55836	A	25609	1	858	
25469	55837	A	25610	98	288	LCRNNGEPLARSGAAMGALLD REHSRHPDLEG\GSQQQVCDS GGSVTAANTSGGQQVKAQLEL

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25470	55838	A	25611	1934	2812	RPQTYSDAQPGFRSSRPLRYGA GIMTLLNISGLSHHYAHGGFNG KHQHQAGLNNVSLTLKSGETV ALLGRSGCGKSTLSRVLVGLES PAQGNISWRGEPLAKLNRAQR KAFRRDIQMVFDQDSISAVNPRK TVREILREPMRHLLSLKKSEQL ARASEMLKAVDLDDSVLDKRP PQLSGGQLQRVCLARALAVEP KLLILDEAVSNLDLVLQAGVIR LLKKLQQQFGTASLFITHDLRL VERFCQRMVMDNGQIVETQV VGEKLTFFSSDAGRVLQNAVLP AFPVRRRTTEKV
25471	55839	A	25612	1	515	MLAVECRSLPFPPLVQPVRYTD VTVKDDYNPETEQYTLTISQRT PATPDQAEKQPLHIPFAIELYDN EGKVIPLQKGGHPVNSVLNVTO AEQTFVFDNVYFQVPALLCEF SAPVKLEYKWSDDQLTFLMRH ARNDFSRWDAAQSLLA/ILHQA ERRASSARSAAVSAGACG
25472	55840	A	25613	1	1053	
25473	55841	A	25614	1	1521	
25474	55842	A	25615	430	1120	QTASTFLKRGKCASRQSKLCGN RRRKRQRRISSYCLLRGTACSP AHQPDAFHQKRGNAGRHYAEC VLQYSSCSTRYS\PGR\TQLINLF EVADGKRLVDLPGYGYAEVPE EMKRKWQRALGEYLEKRQSLQ GLVVLMDIRHPLKDLDDQQMIE WAVDSNIAVLVLLTKADKLAS GARKAQLNMVREAVLAFNGD VQVETFSSLLKKQGVDKLRQKL DTWFSEMOPVEETQDGE
25475	55843	A	25616	407	1176	AYSTSLRVKICRKTSTLLRSRV TQIRSNTKSTKRAAHCSLTASC PPRCSIHATTVTSTTPCLWRIA TMLRALARLLLRIKFSGRTLKIA CLLLLAVAGATILIADR/AALYHA GKVKWLLVSGDNGRKNYDEA SGMQQALIAKGVPAKVIFCDY AGFSTLDSVVRACKVFGENHIT IISQEFHNQRAIWLAQYGIDAI GFNAPDLNMKHGFYTQLREKL VIAKGHGSLLTDLPVAKAGTM WAIEIDDVARHSRSHL
25476	55844	A	25617	3	168	NPFYSAMR\KSAGIRHILARHVE GASHMAEGYTRATAGNIGVCL GTSGRCCFRLCW
25477	55845	B	25618	169	1227	

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25478	55846	A	25619	489	740	AIARSCADYHPANFRHHRAAA RAGDDYLSRRAERQPGAKAGG SRLRAGKRPCSAFRYW*CAAG E*SVGEKIMAGDVISPKRRL
25479	55847	A	25620	146	475	
25480	55848	B	25621	38	191	
25481	55849	A	25622	662	4568	
25482	55850	A	25623	20	2661	AGHIHRPRYQHGVGTESTSIMS VASRSAERVFLTKFESWKNFPI NRGRNKMAMRAVDAAMYV LKKEGIVPAFGVPGAA\NPFY SPMRKHG\GIRHILARHVEGAS HMAEGYTRATAGNIGVCLGTS GPAGTDMITALYSASADSIPLC ITGQAPRARLHKEDFQAVDIEAI AKPVSKMAVTVREAALVPRVL QQAFHLMRSGRPGPVLVDLPF DVQVAEIEFDPDMYEPLPVYKP AASRMQIEKAVEMLIQAERPVI VAGGGVINADAAALLQQFAEL TSVPVIPTLMGWGCIPDDHELM AGMVGLQTGHRYEKYTEGRKI VHIDIEPTQIGRVLCPLDGIVSD AKAALTLLVEVAQEMQKAGRL PCRKEWVADCQQRKRTLLRKT HFDNVPVKPQRVYEEMNKAFG RDVCYVTTIGLSQIAAAQMLHV FKDRHWINCGQAGPLGWTIPA ALGVCAADPKRNVVAISGDFD FQFLIEELAVGAQFNIPYIHVLV NRPAANGAQQSCHPDAPAVFR SSIFIRKSEEKLVVTMNELSASR ALPEETMPGRFELKPTLEKVLH APDNFLFMDPLPPMHRRGIIIAA IVLAVGFLLPSDDTPNAPVVTR EAQLDIQSQSQPPTEEQLRAQL VTPQNPDQONLYRKASQKSSR KLPKRDLPHILTPFRAPMASVC AKRKGQVLHQYSLKKYRYK
25483	55851	A	25624	1	570	
25484	55852	A	25625	312	873	APRSRVQAKIAASNTGELNALQ QLGFS\VEGEVDLAL\PVNNA\ SDSGAVVA\QETDIPA*RQLASA AFAQSRFRAPWYAPDASSRFYA QWIENAVRGTFDHQCLILRAAS GDIRGYVSLRELNATDARIGLL AGRGAGAELMQTALNWAYAR GKTTLRVATQMGNTAALKRYI QSGANVESTAYWLYR

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25485	55853	A	25626	2	922	FSPPLHDAGEAVFWRVNSA NYGVLDKLGADLSKAESQ WDEMMRTAGSLKLGTHASINS LFENITAAPADPILGLADLFRAD ERPGKINLGIGENPSCCRTSSSP VFDAAIWPAPVNNASDSGAVV AQETDIPALRQLASAAFAQSRF RAPWYAPDASSRFYAQWIENA VRGTFDHQCLILRAASGDIRGY VSLRELNATDARIGLLAGRGAG AELMQTALNWAYARGDHMI/R I*RTAGGGNRTRL YAVGNG*RQ TVWRWRFYPSLPAVAGATFWQ RQSVTDVLRHFRAGDGGAAAR YPAWR
25486	55854	A	25627	911	1441	AIPSISCFLAIKALILSAIWLNA TPSRSKLEPSSKWIRSLRCPSPN RCAAASSFNISCQWFLSEYGGP NQVASGKTSFVIVFKQPRYRA VTKPNCRLMMRNGCSTLARML PVMYAMLMPVFLRGCCFKVL TLPGRSAISQSTSTSASSSRCGA PW*PASAETNCSSPCSRPLS
25487	55855	A	25628	1	1247	MERVLDNLLNNALRYCHSTVE TSLLLSGNRATLIVEDDGPPIAP ENREHIFEPFVRLDPSRDRSTGG CGLGLAIVHSIALAMGVNAQA DFMKLTGADEQIAAYCFKMPF VFHLIEEVS RNFGYALCLINIDH KAALNITQRTAANILLDGQMQ HAVDQAFQTARTARQGSTFVQY ARLARKLATANICWSYFVPVR ASIEPLTWENAFFGVNSAIVRIT SEAPLLTPDALAPWSRVQAKIA ASNTGELDALQQLGFSLVEGEV DLALPVNNASDSGAVVAQETD IPALRQLASAAFAQSRFRAPWY APDASSRFYAQWIENAVRGTFD HQCLILRAASGDIRGYVSLREL NATDARIGLLAGRGAGAELMQ TALNWAYARGKTTLRVATQM GYTAALKRYIQSGANVESTAY WLYR
25488	55856	A	25629	1	1925	
25489	55857	A	25630	402	664	TARRLLFFRD/RTARVAVPNAA VVLFPPLPVKTMIPRSLGRRRS GGICRPLGYLVAMDAIDGLQN ADNSNGESRIATSSFRSRSARR

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25490	55858	A	25631	920	1237	IARPGCHLSHCHSEPSGRLSK*P FSCNSLKTGDF*PI*GLIQTQIFS PFAFRRIIPSGSGKVSGSHSKS HHWKAFIQKQSKWKTCSGRLR SAIPSIKLFTVASS
25491	55859	A	25632	1	1341	MVHRFGIRVRFVALGFYQDVIL PVRAHRHEWGHYVHLCASIQR QIDVSFARDATSHSSCPVTGVR FWGYPPAANKVVIAGFELEGET MTRPGLICAEGGLLVMI VSLRS ELYDSYHEFTRQRVTEIVEKAA NHLPAVEMMTLHRCAINRHN FVRRVGPAGISTFFASSPDGVN AGFSTFRVVFTCQRSRPLQRHS HADVQTATLLLNTVNLEQKQA NAILSGLSDMIPNSSPESAPEIQL LQSRMILGKTIAELNLRDIVEQK YFPIVGRGWARLTKEKPGELAI SWMHIP*TL SKNRTPFS/DGLS DMIPNSSPESAPEIQLLQSRMIL GKTIAELNLRDIVEQKYFPIVGR GWARLTKEKPGELAISWMHIP QLNGQDQQLTLTVGENGHYTL EGEFTVNGMVGQRLEKDGVA LTIADIKAKPGTQFVLSQRTELE AINALQETFTV SERSKESGMLE LTMTGDDPQLITRILNSIANNYL QQNIARQAAQDSQSLEFLQRQL PEVRSELDQRKKNSTFIASSAIR
25492	55860	A	25633	170	935	LTQEDTRINLIPMAVESLHLPTQ MLINGGETYAWRNWKRGGQY KSATLNTGQPHVRARELVDS TLASDAARLTCRHGLALPALFT LIAVVTSLSPQFIRQILWSRLT KTR*AGDQLDAYSTTEWSGSA TDTHGWGKRPLYTGR*RVHRQ WYGRPASGKRWRCADYRGH* GQTRNTVCPEPAYRTGSD
25493	55861	B	25634	42	755	

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25494	55862	A	25635	793	2127	RYCKGTVMDQIRLTHLRQLEA ESIHIIREVAAEYSNPVMLYSIG KDSSVMLHLARKAYYPGTLPFP LLHVDGTGWKFREMYEFRDRTA KAYGCELLVHKNPEGVAMGIN PFVHGS AKHTDIMKTEGLKQA LNK/YTTSRAKERIYSFRDRFHR WDPKNQRPELWHNYNGQINAK GESIRVFPLSNWTEQDIWQYIW LENIDIVPLYLAAERPVLERDG MLMMIDDNRIDLQPGEVIKKR MVRFRTLGCWPLTGAVESNAQ TLPEIIEEMLVSTTSEQGRVID RDQAGSMELKKRQLIELIINVH NLLKNGFGFQVKVNRJALLAIN VEFFFRLVQLAAHFSSGTLAQD KLCSWFGLNVRDSQRNAIFFQT LADHTIDGELFTFCIVAVFPNL PIYSYATIIYVSSSIPISSSEPSIR FACSQTSRQPPVSDSRFCVSQV
25495	55863	A	25636	360	566	GAETMGDLLWVVGILLMCSL TLVLVWLDPRLS*RT*A*CGA LTSHQAINNGRNEKRKPIRES DP LKA
25496	55864	A	25637	1	312	LLRKSVSVIKGTIKTIIGFM LLQ AGSGILTSTFKPVVAKM SEVYG INGAISDTYVMQDG* APELGLS PGRFLRHD TDFVLQLGIVMVRL AGD GSLNINAQANN
25497	55865	A	25638	517	796	PTARFGWVKGVDPAD/CNRQ DRFAIDVRVQGS*WGCVLPLF RVLLFVSCALLVSVSCVLRL LL FCCSS\LSLFLSGLGGGR SPKAG DVFRDRR
25498	55866	A	25639	47	411	AIKVRELSIKLMC/YSLIKTLH G*KYRNF MVIGSMVFGKKAITH VAGVKRRTAVVVGFKVFDIQR SQFRIVVTGDLAQLLYRVIKVIT CGHFVRQHGIVLCAGVLHVGD RYQAHVKTLGGLI
25499	55867	A	25640	1	1488	
25500	55868	A	25641	2	298	CCICL/YSYAPIDVW/WG/WNTA GQVQAA*TLKAASSSIVTIPLRN TFIFNYSLSGLRRRRLIIRSRRHS THASNITLIAASTASRIGWFASA YHTRSNHGR
25501	55869	C	25642	1	2064	
25502	55870	B	25643	1	1116	

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25503	55871	A	25644	312	620	SACRCCLVVVPLFVCL/GSSLSL APTFPLLASFSSSRASRVVAFGL GSLRAGSALCLPCA AVVLALRS AGTCLEWWWHSVVLPPETK RLPSTSLIPYASVSI
25504	55872	A	25645	2	2237	
25505	55873	A	25646	692	6383	RMSRSSDYDQYRSRNALIRRH EKMDASLHVGTKEFDISKVSEV DSVDDLLIDNAARYLLKDWKG VGELVNGVEVALEYTAERGIAL LKQNPELYWQILAEAASIAQVG GEVWIAPKFERNGLRLLANSEI GAASQLQTYHRVDPGRPCKLD LSGMSQRVMIAMAIACRPKL LIADEPTTALDVTIQAQIHELLLE LQKQENMALVLITHDLALVAE AAHKIIVMYAGQVVETGDAHA IFHAPRHPYTQALLRA
25506	55874	A	25647	856	1467	
25507	55875	A	25648	1823	2014	SQEIALMQFRPRLTGASGSP*RP PHRTLRSQNAATIPQKRASA LIPLMRILPVRYGHLLC
25508	55876	A	25649	1	218	
25509	55877	A	25650	2740	3293	IFAVNLILQCHVGGTHHQRFL FAGNGDAGNQIRERFPNAGG/E LQSPDVALLLRPAFWRRPQSSA AAAHGE*SRGSVPEAPYTRRQF ALPAPPIKCAPLPERQRPVPSR HLRLPACPGYKNRASSAKPSYS FLAQRQHLQRLSPLPQNQNLPO RRRDQRQRAGAMSARVPDLISS SRSMRRTS
25510	55878	B	25651	1	1875	
25511	55879	B	25652	1	2981	

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25512	55880	A	25653	1	1649	MTFRNCVAVDLGASSGRVMLA RYERECSRSLTLREIHRFNGLH SQNGYVTWDVDSLESAILGL NKVCEEGRIDSIGIDTWGVDFV LLDQQGQRVGLPVAYRDSRTN GLMAQAQQQLGKRDIYQRSGI QFLPFNTLYQLRALTEQQPELIP HIAHALLMPDYFSYRLTGKMN WEYTNATTTQLVNINSDDWDE SLLAWSGGQQSLVWVAEASGE WGVLACTIONFAWNRNYFVLLFV GVFLSSFGSTANPQMFALAREH ADKTGREAVMFSSFLRAQVSL AWVIGPPLAYALAMGFSFTVM YLSAAVAFIVCGVMVWLFLPS MRKELPLATGTIEAPRRNRDRT LLLFVICTLMWGSNSLYIINMPL FIINELHLPEKLAGVMMGTAAG LEIPTMLIAGYFRQTSOPTAYGR SVGRIRSRIRQSCYYQRIFSL LACELANALERPENFCGMHFFN PVHRMPLVEIRGEKSSDETIK VVAWASKMGKTPIVVNDPCGF FVNRVLFPPYFAGFSQLLR/ERRG FPQDRQSDGKTVWLADGPGIS AGRCGH
25513	55881	A	25654	1590	2855	RNLLGEAADPVSGPHSAIYRPD WPKSGDCACQGPICKSANRPA VVPVHVGPISEDLEVFLNVFGE LPQPLIDTQILAAFCGRPMSWG FASMVEEYSGVTLDKSESRTD WLARPLPERQWEYASPNVWY LLPITAKLMVETEASGWLPAAL DECRLMQMRRQEVVAPEDAW RDITNAWQLRTRQLACLQLLA DWRLRKARERDLAVNFVFREE HLWSVARYMPGSLGELDSLGL SGSEIRFHGKTLALVEKAQTL PEDALPQPMNLMDMPGYRKA FKAIKSLITDVSETHKISAELLAS RRQINQLLNWHWKLKPQNNLP ELISGWRGISAVKSSEAGLGAL SATSGFGKLQIQHQAFTLRTRT TDQHTLLAGTLFIAKILIPMVSF TFQYCCFAVPQATYCHRIAPIL GNGAMKPGRKIS

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25514	55882	A	25655	1	3315	MDELRLVLMTHIHLPPIRRAD GSFGNDLTTGAGFNDRKTVPR YARVHVYRCRKVICIFTKRIPFC LDVPAHRALVVMKGTLYGMP VVAFAFEFAFMGGSMGSVVG RFVRAVEQALEDNCPLICFSAS GGARMQEALMSLMQMAKTSA ALAKMQERGLPYISVLTDP TMGGVSASFAMLGDLNIAEPKALI GFAGPRVIEQTVREKLPPGFQR SEFLIEKGAIMIVRRPEMRLKL ASILAKLMNLPAPNPEA
25515	55883	A	25656	246	422	RHADTDLRR*ISDRFSPAPPADP ANGGR*TPRHAARKRDPGTPV QPARKPSKPTRLRL
25516	55884	A	25657	884	1276	LVTRQLSPGNRCNVFAFSSAVE TSLTCQGWLSPVCAVCQAIS SSHNASIQVRSPAASCSPFC SKRPSALWWTSPFLSPRRRT SGANAESVSAT*SKRRSSARR SASARSTLSGAALRSRTAS NEWRS
25517	55885	A	25658	649	1427	LPLLGWSMSPRMTAQLACD ALQMALWRRKRPRNVIVHT DRGGQSVQQFRALKRHITAS RETERFYLDVQKQFPKVTAQ KVIVSEAGASVYSASELAAQ EFPDLVDVSLRGAVSIARR LQDPLAELVKIDPKSIGVG QYQHVDVSQTQLARKL DAVVEDCVNAVGVDLNTAS VPLLTRVAGLTRMMAQNIV AWRDENGQFQNRQQLKVS RLGPKAFEQCAGFLRINHGD NPLDASTVHPEAYPVVERI LAATQQALKDLMGNSSSEL RNLKASFLDNEENWPLLL DALIPVANTCEMILMPA CFG LADDKLWRWLNEKL PCSLMLLPTLPPSVLGIRLQ NQLQRQFVRQGGVWIECGD GGDTITITITITQR**PA GRVYRSPGSLSGGGT HSGSNTAGTERSDG
25518	55886	A	25659	1	1878	
25519	55887	A	25660	1	4329	

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25520	55888	A	25661	2514	4173	PTSCLPDDYVGHCRCRVSAAHF AGSVSCVRLLSACARPLWRHL GLALLRVWCRTFLLLSALASVF CPCSVVWGRLLFSASLSVVVW GGVFLSPLGSLSPRGARLGAA CRSRED/RRR*WRGIFNRDTFAS AVPASVNPDKPCAPAACIRFTS TSAY*VGCSDRNA/DAEASGEG WRRFGDATLSTGQFGGEAREE VILGLIGSQA\KTGGNTPKASAV RKITLVAWPALETGLTMLSM** IG*ETRVFSVFEPSSKSIVPSSRT VTFSSNASRRIAL*ISGSASFDSL IVFA*QPPSKLNTPSSSQPCSSSP IRRRFGSVERVVLPVPERPKNT ATSPFSPTLAEQCIEAIPSAVFA APVRVAASMIISGFCALASIRPS ASTRRPSASVFITSTFLPLR*VMI SPSLNALPLIRLSAQQRNSFTRL FSPRVMANASAPVTVAAPPMMS DFIESINAVCLMQARVHWRFFI ASWVVIQPPAIPENVLNRVRLC AAPGTLCLTTFVSSSGDR*NAL CNRCNRPAPCFRSSAIRFATVLA ARRHDVWVPISPLIPRPSS

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25521	55889	A	25662	2221	4400	RGCVVSGKSSCSKTNLPSSDDKR TGASCPLRDLFLRYLRAHALVT AEQLAHEFSLGIAIVVEQLQQLR EQGLVMNLQQDIWVSDEVFRR LRLRSLQAAREATRPVAATTYA RLLERQGVLPATDGSPALFAS TSPGVYEGVDGVMRVIEQLAA SAINASLWESQEFVYGKPVYAV GENYSQQQYYLASFANKIWLSP QGVVDLHGFATNGLYYKSLLD KLKVSTHVFRVGTYSKSAVEPFI RDDMSPAAREADSRWIGELWQ NYLNTVAANRQIPAEQVFPGA QGLLEGLTKTGDDTAKYALEN KLVDALASSAEIEKALTKEFGW SKTDKNYRAISYYDYALKTPA DTGDSIGVVFANGAIMDGEETQ GNVGGDTTAAQIRDARLDPKV KAIVLRVNSPGGSVTASEVIRA ELAAARAAGKPVVSMGGMA ASGGYWISTPANYIVANPSTLT GSIGIFGVITTVENSLSIGVHTD GVSTSPLADVSTRALPPEAQL MMQLSIENGYKRFITLVADARH STPEQ/IDKIAQGHVWT/GLGDF DDAVAKAAELAKVKQWHLEY YVDEPTFFDKVMDNMSGSVRA MLPDAFQAMLPAPLASYQVRS PCLTYILLFRYHSYQYHAKIN LRCLHGRDHRDAAFRAGLYTG VRSSTTPTGADAGIPSPGDARF AIHEYIPRNGSSSRFNPGLAPHA
25522	55890	A	25663	1	1665	
25523	55891	A	25664	475	1182	
25524	55892	A	25665	242	3059	
25525	55893	A	25666	1761	1970	
25526	55894	A	25667	455	1137	GTKPRDIDHILGTFITPGMPKGG KLDVYAAPELPLKLLGRPTEGE YNEEF/SLLPVVNYLKDKLSNP V/RLDGVDAEGEL/VVLENVR FNKGEKKDDE/HRAQASTHGIG K/FADVACAGPLLA/AVLDSLK /IADQLIVGGGIANTF/AAQGH VGKSLYEADLV/DEAKRLLTTC NIPVPSD/VRVATEFSETAPATL KSVRHSKISYISTGGGAFLEL WKVKYLPVAMLEERG
25527	55895	A	25668	1108	1932	
25528	55896	A	25669	1496	1631	
25529	55897	A	25670	462	1152	
25530	55898	A	25671	545	598	

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25531	55899	A	25672	1	1761	MRGHNWIDMDQARQQSTPHI DRKICHKNDPRPTTPLRKIDAH PHTLIILPAESTLSTTKYKLRAI. LVENTNKDKSAVS VVFRGSVL HQQAANFPNMLCFQLKNGVN ACNDFIMLFVDDNAAGSIERAA SPCINEKQHAFSESVPAAIAVRG LGSMIAVEFNDPQTGEPSAAIA QKIQQRALAQGLLLTTCGAYG NACKRRIDYVCRIKHSRRIRQV VLLNFAKSGAFSTTRGTDDKLT PVIQPRASGEYNEEFSLLPVVN YLKDKLSNPVRLVKDYLDGVD VAEGELVLENVRFNKGEKKD DETLSKKYAALCDVFVMDAFG TAHLRAGFLLTGIGKLRCSLRC AGPLLAELDALGKALKEPARP MVAIVGGSKVSTKLTVLDSL.SK IADQLIVGGGIANTFIAAQGHID VGKSLYEADLVDEAKRLLTTC NIPVPSDVRVATEFSETAPANL KSVNDVKADEQILDIVRDL.DAA NVVINA VFSYVTNVWGWA FE WYMVVMLFGFWL VFGPYAK KRLGNPEPEFSTASWIFMMFAL LYVCCRTVRLGREIHRRAQIVH IDIEPTQIGRVLCRISVLSLMI.KR
25532	55900	A	25673	1	984	
25533	55901	A	25674	1	1181	MMAVSAPYVGDNIDGGIYTQ SEHTISSDCVLDTAAMWTPLS AVIGCTTNP AQYPANAAEVYN KDG NKLDLYGKVDGLHYFS DN KDVDGDQTYMRLGFKGETQVT DQLTGYGQWEYQIQGNSAENE NNSWTRVAFAGLKFQDVGSFD YGRNYGVVYDVTSWTDVLP EF GGDTYGS DNFMQQRGNGFATY RNTDFFGLVDGLNF AVQYQ GK NGNPSGESFTSGVTNNGRDALR QNGDGVGGSITYDYEGFGIGY TQTYNATRVGSLGWANKAQNF EAVAQYQFDFGLRPSLAYLQSK GKNLGRGYDDEDILQICCMSDP TQNRQASAKLALPCQVALLSSA SPHHAFTPSTSIQPAHIIHSSPP PWASSHSISTHQHTQCSSSNT LAVH
25534	55902	A	25675	1	147	

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25535	55903	A	25676	683	947	QVRDSLQQGRERRIALSIGWLV WREGCQDQCELEAGGASALTR RGSCRELDPAFPATMLLFCPGC GNGLIVEDG\QRCFASTDAVPP
25536	55904	A	25677	12	393	RGSCRELEPAEFETMLLFCPGC GNGLIVEEGQRCH/RAVACNT\ CPYVHNITPQGNTIWKYPKLKE CGSDVLGGAAAW\ENVNSTAE SC\PKCEHPRAYFMQLQTRSAD EPMITTFYKCC\NAQCGHRWRD
25537	55905	A	25678	234	567	YVDETDDCFENNRCGPVNGA YSPAGLSRVAADASLTTPHAK* TLRSLTLHQHDKTRTELLNDVA GALALDDKLGRSTNQLSGGEW TPSLARPFLLLGPCKMRLLPLH LPP
25538	55906	A	25679	1	794	HCDGKHFTGVGKIMSIGMQLQ DVAESTRLGPLSGEVRAGEILH LVGPNGAGKESLTGREWPMP TVKGTIQFPGHLEAWSAKK\L ALLRAYL\SQQQTPPPPPVWH YLTLLHQPDKTRPELLNDVAGA LALDDKLGRSTNQLSGGEWQR VRLAAVVLQITPQANPAGQLL LDEPMNSLDVAQQSALDKILSA LCQQGLAIVMSSHDNLNHLRH AHRAWLLKGGKMLASGRREE VLTPPNLAQAYGMNFRRLDIEG HRMLISTI
25539	55907	A	25680	12	414	RAAPSRNLPPRMPIPIAAPIAAR PIITAAAMYRSIFRFSMTVSSLF QLKRSSVGKLMFFRRHRQIDDR QNHEDGLQRNDQDVENGPRH IQDPL*PPRQETSNQNEQLSGV HVTEQSQTGWSWFGQHAYPF
25540	55908	A	25681	568	724	RFSLGTVLDDGIYPHQYDGYSR WSAKRYL*WRNL*SGTHRSC* VNNFTRSNKK

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25541	55909	A	25682	1	974	MNGKLQSSDVKNETPYNIPLLI NENVISSGISLISLWHTYADEHY RVIWPRDKKKPLIANSWVAVY TVTGCNSDRLNINIRTLRAMA REFSIDVLDEMLQQFRVVPDR PEHKQLPQHELAERQEKISTWL ELMKADGINPEELLGN\SSAAA PR\AGKKRQPGSAKYLF\TDVN GETKTWTGQGRTPKPIAQALAE DCHGKPEYGS AVHGCRCDGGS AGNLCFDLNRHCGLGVRRLRPR KINGDYRSRFCHAGETGVCAG AETTQMAESGVSGAGLAVRGE RDGKRSPLQIAIMMNGSSGQAI SSNVIIQLFLVEVIKSLRMLYM
25542	55910	A	25683	1	1359	
25543	55911	A	25684	1	918	
25544	55912	A	25685	72	690	PAPVAGAHCPGLLHRSSEHQEP QLRHVARWPSS*SWLCHGTFR KLLPGKKRRGGNKKF*GRRAR GVGCVVS RVWCGPACACSLRR WLAHTVHWVFTEAQSIKSHSS DMWPDGLALSPGCAMGPSGSC SRGKNVGGATKNFRGVHNIYC HKPIPTTQHESKYARQTTTEEC TQTSSHDFRTTFSAVMQORLQI ARNLVTHPKLVFMDEPTGGDL VSVQARLLDLLRGLVVELNLA VVIVTHDLGVARLLADRLLM KQGQVVESGLTDRVLDDPHHP YTQLLVSSVLQN
25545	55913	A	25686	1334	1545	RSQSRLERSCSVTGSM*RVSPA RSFRITKRVLAAARLAT*LPAS GRRTGVGVSDSEFPSELLSSSF TD
25546	55914	A	25687	1784	2125	WLQHIHPQLLRCPVLRAQNVW IRTLYDRH/RFVTRGTLGWIETG DF/DKVPDLRFFAGGDRSI/RG YKYKSIAPKYANGLDIGKSPAA GAISPCLTFVMSARRGGHGRQS ASGCRA
25547	55915	A	25688	931	1213	NLHPAPAKRRAPARPQSRLAHR QRGRMRGAPRPFQRQIKLCY ARCTPTICPTKVKSRSNTVTSG* TWSPRQRAKWWKSAKPPSAGL TSSARHP
25548	55916	A	25689	999	1243	VDPVPWLPALDITSTAPARQF RKRIIASLMPT/WGTSLRRYSVP PRRSGWKRWRFPPTGSTTCRPP FPAVCSSVCRPATW

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25549	55917	A	25690	1225	2341	ARTFRLSNFGGSTRARGVYWD PNSDLCPTLDFS YKMPLLNPL EQYYLVQGGFKRTDLNDESD STTLVASRYWDLSSGWQRAIN LRWSLDHFTQGEITNTTMLFYP GVMISRTRSRGGLMPTWGDSQ RYSIDYSNTAWGSDVDFSVFQA QNVWIRTLYDRHRFVTRGTLG WIETGDFDKVPPDLRFFAGGDR SIRGYQYKSIGPKLPNGDLKG ASKLITGSLEYQYNVTGKCTK WQFGEWLAPGEVRLAPGATLA TPELVASCSTEGNLGLAANFHA ELRARLPWHGGAMKPRPVHLN TWEGFYFDLQPDVKALATAA AALGVERFVLDDGWFNARHH DRAGLGDWWPDATKFPQGLG ELVAHVNPFYA
25550	55918	A	25691	45	233	SSYPWWAAWWASTTARPSTR WRSSPR*SATTWASSPSPTSP*I HDRPGIGATHSSRFIPK
25551	55919	B	25692	1	558	
25552	55920	A	25693	324	657	
25553	55921	A	25694	831	1244	WQPGGR*WSRQRSADGTGPDD LAAAYFPGDRFYRN*PSERC*H RRG
25554	55922	A	25695	1	1215	
25555	55923	A	25696	1	840	
25556	55924	A	25697	1	1365	MPQNRGGFLDKKNPGAPLEGA VYVNCFTFRFGIGYEGRTAVFC GAAKVPPGLNYRGIGAFPGGNF ASKRSRGRNLAGARCLRFCPK\ WQ\NYSETASVQQN*SVLARA IERGINAPLA\SSCGRFFDAVPA ALGCAPATLSYKGEAACALEA LAASCHGVTHPVTMPRVNDQL DLATFWQQWLNWQAPVNQRA WAFHDALAQGFAALMREQAT MRGITT LHPEGLERMSAGHES WLERRNGELGEGKGS KAYPTG DHKGADLYDDSNFLIQNIFVED TRGLLRQGREDLIER YKDPLNE NPKRCVEQLANWHKELEEYKK ASRIDIKPSREYASTIMNAIWTG EPSVIYGNVRNDGLIDNLPQGC CVEVACLVDANGIQPTKVGTL P SHLAAMMQTNINVQTLLTEAIL TENRDRVYHAAMMDPHTAAV LGIDEIYALVDDLIAAHGDWLP

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25557	55925	A	25698	1	950	MPDEENRFNALKAVFSQLMTD ATLTPLFNYHYRISAPPGVNGL SMKRAVVVFSGGQDSTTCLVQ ALQQYDEVHCVTFDYGQRHRA EIDVARELALKLGARAHKVLD VTLLNELAVSSLTRDSIPVPDYE PEADGIPNTFVPGRNIFLTLAA IYAYQVKAEAVITGVCETDFSG YPDCRDEFVKALNHAHKEKLD EDCKRRMYTNPLRVLD SKNPE VQALLNDAPALGDYLD EESRE HFAGLCKLLESAGIA YTVNQRL AVNPEFKADPVVDIYLVASGA DTQSAAMALAERLRDELPGVK LMTNHGGGNFKKQFARADKW GARVAVVLGESEVANGTAVVK DLRSGEQTAVAQDSVA AHLRT KEKDSVEIYENENDQVEAVKRF FAENGKALAVGVILGVGALIG WRYWNSHQVDSARSASLAYQ NAVTA VSEGKPD SIPAAEKFAA ENKNTYGALASLELAQQFVDK NELEKAAAQLQQGLADTSDEN LKAVINRLARVQVQLKQADA ALKTL*IPD*RPDAGLRCKRSPR SPAVCTDRQNAHEIPRPSHLM PERR*EAPALPDFLNPARAAG
25558	55926	A	25699	1	3314	MKISRLGEAPDYRFLANERTF LAWIRTALGFLAAGVGLDQLA PDFATPVIRELLALLCLFSGGL AMYGYLRWLRNEKAMRLKED LPYTNSLLIISLILMVVAIVMG LRAML MAMEPIWESDFHTLSY GFRPERSVHHAIRTVKLQLTDC GETRGRWVIEGDLSSYFDTVHH RLLMKAVRRRISDARFMTLLW KTIKAGHIDVEDKRAASEGV PQ NKIISPLLSNIMLNEFDQYLHER YLSGKARKDRWYWNN
25559	55927	A	25700	997	1716	PYLTA SSSAFQQLHLSGENHRD DGCAGYSRRTLAAQLQCHCEC DHNLPDTPRLPRSGVVLPARF PRPLHTLISALHRRVLTRHARH ESSTLNPQRLPPAHRFFACQSR Y VPGPAEYSYAVRSTDESG*A*W LRVPPNLIALT VQRSLPDLALPA QNCPPCRSMLEPAPYILLGMLA TWPACPG\HEVG*SHSAHPDEP ETLQTVSR*YRRFGRPVH*SVH VVGRYPHQACQCYLSSTAE
25560	55928	A	25701	1	769	

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25561	55929	A	25702	1	3707	MVRSVVAGIAQAALPQSVVA WEYLVEDYDRIRNDIEAVLPEF ADYNQIRIRHPGGFHLINAAAER RWMTPSGKANFITSKGLLEDPS SAFNSKLVMATVRSHDQYNTTI YGMDDRYRGVFGQRDGYRDN CEEIAQLAEDCGNLFVTVFRC PAGANLQGNRNVHCIDDLGKD RFNDIRNVQAAELLAEMAISA QRRMRAAKKVVRKKLTSGPAL PGKLADCTAQDLNRTELFLWK GEQNALLRGFPAVRLHSL
25562	55930	A	25703	1	369	LPSHGAGLGTCSLPCLSLPPTP WAPVQPEPPRRAPPPAPWRPVP LTTQGLRN/DEHRVQDWQAAP PAAPLKVCKYTNQHPVFSTRFV NAPIDTLYLAALVRTWRTFMSS SRIVNTPIGTLYLAQ
25563	55931	A	25704	1	444	MRLHSSALGRSMGLGAVEQGA ALVGEAPAAQEPTAGEGSGM AGCSPKACPAQRQLRPGPAIAA PSAGPPSPRPPGTPAGQAPRAA PVPARASPSTPPCKLRERAAAF A/EPRKGLPQCSGGLKGSSAA KVGAQAEEAPRASESCEDC
25564	55932	A	25705	1767	2130	YTGQRLRRVYWVPQQCQPTCA ALDFSPSLSCLPA/AAGLRTYSQ PCLSLPPTPWAPVQPEPPQ*APP PAPRRP\AHRPPKG*GVQAHGA G\RQAAPPAAPVRDPLG\KPAGL LSLVGTWRTFMS
25565	55933	A	25706	654	832	RRCARFLAGP*LPSHGAGLGTCS SPPCLSLPPTPWAPVRPEPPRA PPPAPRRPVLCVFS
25566	55934	B	25707	1	537	
25567	55935	A	25708	1	455	HCGSVIGGFLVSLTLRKLRTL AVSVTALTVCLEFIPSDVRMR SVSSFWWVRSLAGSRVKLQTF AVTVTALKAAASLELFVPPGGLV VSLASGVKLQTAAGK/RCLPV LRHAPALLSPWVDGTGHRGA GGGAHRGGSGRPGAHGGGRL
25568	55936	A	25709	1	314	SACREVWRERHEREPGLRGAL AGQLEFRVGVGLVRPALGGAG QPGAALDFSPGLSCLPA/AAGL GTCSPPCLSLPPPPWAPVQPEPP RRAPPPVHGAQSHRPPKG

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25569	55937	A	25710	144	519	HPGQRLRRVYVWPQQCQPIGA ELDFSPSLSCLPA/AAGLGTCSP PCLSLPPPPWAPVQPEPPQRAPP PAPW/WLSPIDHPRAEECECTA QDWQAALPAAPVWDPLEMSG LFDRAEKRYIRSFARKDSM
25570	55938	A	25711	271	743	ARTWNVPKVCVRIKANSHSIFT GLSCLPAGQGSGPAARHA*ASD PLRGLLCGPSLLDE/PPPPAPWR PVPSTTQGLRSAGEQRGTGRQL HLSAAPVRDPRGEAIWAPESGR SAASILKPARPPAHREERTTPDA PP*EL*HSPRRSAASLREDPWLH S
25571	55939	A	25712	1043	1348	GPARNRAQRRRAGTAGGPITPS AAAGPGAKPLIARRRQGWPA PSAGPAKPTPTRISSWPAS\QPA AAVPARASPSTTLFKLREWAPA LASPERGSHSATVG
25572	55940	A	25713	22	226	NTRRWTEMTFDQVVRIFSIGNL QTVLQNRQPGGAIARCTGHIDP VTRFRPRAR*GSSHRNKA VDTQ RH
25573	55941	A	25714	166	714	
25574	55942	A	25715	1	462	

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25575	55943	A	25716	1	924	MFAIISYSSLAAVLLTATLTAAG IISFPVALCLVIGANLGSGLLAM LNNSAANAAAARRVALGSLLFK LVGSLIILPFVHLLAETMGKLSL PKAELVIYFHVFNLVRLVML PFVDPMARFCKTHIRDEPELDTQ LRPKHLDVSALDPTLALANAA RETCALATPWTDDGRKYAYSA ASGGRRSATKVMVVVTDGESH DGSMMLKAVIDQCNHDNLRFGI AVLGYNLRNALDTKNLIKEIKA IASIPTERYFFNVSDEAALLEKA GTLGEQIFSIEDMDLGDEVYTV GRPHPMIDPTLRNQLIADLGAK PQVRVLLLDVVIGFGATADPAA SLVSAWQKACAARLDNQPLYA IATVTGTERDPQCRSQIATLED AGIAVVSSLPEATLLAALIHPL SPAAQQHTPSLLENVAVINIGLR SFALELQSASKPVVHYQWSPV AGQGKWLANPELLEADADA EY AAVIDIDLADIKEPILCAPNDPD DARPLSAVQGEKIDEVFIGSCM TNIGHFRAAGKLLDAHKGQLPT RLWVAPPTRMDAAQLTEEGYY SVFGKSGARVSSIPCAVPCVWA RVADGATVVSTSTRNFPNRLGT GANVFLASAEALAAVAALIGKLP TPEEYQTYVAQVDKTAVD TYR YLNFNQLSQYTEKADGLLKPRF RPWQRKILDTLATYHEQHRDEP GPGRERLRMALPMEDEALVL
25576	55944	A	25717	1	417	MGVLNNWLSEESLWIQSRIHL RALRYYSNWRQYFAGYTFGRQ YWQSPEDDHLPLREFLARYER PMKNCWKILDIEETTDVDIIRRA YLALLPSFHPETDPQDFKQLRQ AYEEALRIAQSPAKSVWQPEEY EVAEHEILLAFRALLASDSERFL PSAWQRFIQQLNYCSMEEIDEL RWSLCTIAMNTAHLSEFCVVLL AERLRWLQEENTGEIDEEELGS FLYAIAGNVFNFQTLHLPVA RRPDICTQHNDQSRCEGYQILS DKRGHQHGGGITALYQCGNAD PRAKGERLFFDAPA*CASSARV CVLSLAGASKKSRSPFARGSAL PHWYRAVMPPPCW

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25577	55945	A	25718	1680	2058	YRAYAPAFPLPLSPSCPPLWRHC GSGRGENRRRDSSAHGPYAPRR QPDMPAHRQS*SFV/PASCSAC MDEPHKRLTVTAGTECGTSASS AALRAILKPCSSVCSSFFLLLLL PPPPSSSSSSFFFLF
25578	55946	A	25719	1115	3549	NPDRLLQLNILETSK*QQMGD TRKKRS/NLTVAPIISPLKRYEQ HTELSRHINVVNLDGRNRRQQL ILDQ GKSSQRNIYLSHVAQKIPG RATYALSHSVDMITIQ LGTLLR CAPPHRRRYAGRFFCRSAGNFL NVQGFDAVLVAVKHDLCLT IAPSLIVCTRLRSPWCGALRRCS TDGRSDLASSGVMFSIDTESAL TRWCLSLPHGALGKIIAEGLLS VIASKASAIVTTVAVVPVTRRSS LVNWHSGGSLWRCNRTDERD QQASQGTTRMGRTQRNYSPTR QAIHKTGSPTMATTNTEQPPH EKPNTLTQHPRNPDRTIHPKAT HNELTQDTPQRDAKQNGEKTQ RKKNCLSELNDAEDQAERFQD RLMLKLQVTTKPCSMTRLRDC AGIWSAANRWSGIGIDRMIMLF TNSHTIATLFSSRRC AHRNKFH LMNEAVRRLLRSSFRKSVLRRD ASFHDNQRVHSLQLLKERKKSL IHGRICAASLFFQTRRYRWQK APLFSAQFRGRNRAVTHNRWV TTTTAIERTRAGLRPN SGRGF HSSPAWQLRHRKCRR CARRYH TVYWIKRRRSVARASTVVS GRI TSRRGENRRRDSSAIAHMLHAA KQTCLRIAVMIIRAASCSACMD EPPSDLTVTAGTDAGLAPAGYA LNERRDLLHALTKSTALRTAHR GPNRTGWLNRRIVR FVMTALF
25579	55947	A	25720	606	1562	
25580	55948	A	25721	688	762	
25581	55949	A	25722	492	737	SLPSGATLPPALLLASAPDTA* WRCRER*YHLPAYAALSPAVA HRASLYSTLPSSVPWRRQCAGF RARRSPEQAWAYPAR

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25582	55950	A	25723	335	903	WVHDL PARKGSSARNIMLKSA PLRGHTRTRRKMNIEANVAT PDARVAITIA RFNNFINDSLLEG AIDALKRIGQVKDENITVVWVP GAYELPLAAGALAKTGKYDAG IALGTGIRGGTAHFEYVAGGAS NGLAHVGQDSEMPVAFGVLT ESI/EQAIERAGTKVGNKGAEA ALTALEMINVLKA IKA
25583	55951	A	25724	3644	4545	SEAWPWRTAGTCLLC LNTT/AH VDKAIESRTVVADVLAKFENAL TGKLLTVSFQAHEAVIHGHHPA PEENLQVLAALRLQYLQGDY LHAAIPPLEEVYSLQRLKARISQ STKTFTPCERLEKRRTSFLEGT RRSFRTGSVVRQKVEEEQMLD MWIKEEVSSARASIIDKWRKFQ GMNQE QAMAKYMALIKEWPG YGSTLFDVECKEGGFQELWL GVSADAVSVYKRGEGRPLEVF QYEHILSFGAPLANTYKIVVDE RELLFETSEVVDVAKLMKAYIS MIVKKRYSTTRSASSQGSSR
25584	55952	A	25725	1	735	
25585	55953	A	25726	147	504	STCPASAPRPSAGPRI LSGSSAS GSPLGSSSASSPAVHKG*RFWL TG*CGP*VSAGNKLFERWDGS VQSIPLQILESQGSKNLEVF FRG WMVAMDNR FVGLKGDSQQLS GQRIFKLG
25586	55954	A	25727	1	639	
25587	55955	A	25728	1	1247	

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25588	55956	A	25729	1	2376	MAEVEEKKQRIFRKFTYRGVD LGQLLDMSFEQLRQLYGARQL RRLNHGLWRNAEAQAFAAE APMLGQEGGADHREAGSGEDA PAGYDHPSQDGGQGGRLQRQ DLQPGGDQAGDDRPRPGRVLH HLQAQRGKKPM/ISTVTFGQ*P DPPLRAGQL*RC/RLLIYGRGK CWALSGNP/RSGKTTLLKSISAR LTPQQGEIHYENRSLYAMSEAD RRLLRTEWGVVHQHPLDGLR RQVSAGGNIGERLMATGARHY GDIRATAQKWLEEVEIPANRID DLPTTFLRATHTVKMFSIPGYSS PGQLDPETNINIGTSYLQYVY QQFGNNRIFSSAAYNAGPGRVA TAIVLTLYIIYMGFFATSGELT YEVWIGFFASAFTKVFTLLALF SILIHAWIGMWQVLT DYVKPLA LRLMLQLVIVVALVYVIYGFV VWGMRAALQISQSGQTCALL SKVFPTRSHTVSAQGGITVALG NTHEDNWEWHMYDTVKGS DY IDAGRKRQEEDWNSGVGDPS DAGDRKHQLKAAQLRPEAIKQ RRIANRLKRRTQFPRHLKGFVN TLKPIHGGCSVGTKCPQMASLP EGLHHPVKLVFLGKPGCLLTDR PLKGPNTAKPVAVDLNASATAI TSYSLYGGSMILLFLASTLYHAI PHQRAKMWLKKFDHCAIYLLI AGTYTPFLLVGLDSPLARGLMI
25589	55957	A	25730	219	652	SASWREAICLSRCRLPRSATAR GAGRGGCGLADRRASRQGKNL EAESAQEONGHQHRIHESQHPC QGGAPVSHHQA A VRLRESQIQ GAAEKR*PTGDVIHPGQPVSGG /LK*YPSIPTCLLTTRTASLLKPP GVRTSVCWQQLPR
25590	55958	A	25731	1902	2100	RKFFSSSSGRS*PVRCSKL*SSID A*PLERIKRSRSYQVGSVGLCL RKSFHSTSAISAMPIGAPG
25591	55959	A	25732	3223	3669	

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25592	55960	A	25733	1	4325	MPEPPTHSMGSCAAGASLTSTA PCSTAPSPIDHLRAKERTAQ DWQAAPPAALVRDPLAALVRT WRTFMSSSRIVNTPIGTLCLAQ GFQWFSVLSQVHASTDQEIQE MHDEQANPQNAVGTLDVGLID SVCASDSPDRPNSFVIITANRVL HCNADTPEEMHHWITLLQRSK GDTRVEGQEFIVRGWLHKEVK NSPKMSSLKLKKRWFVLTHIPG LLQEFREDALNWGPDEKIFKET ELVNDMDKINGRIERA
25593	55961	A	25734	501	2871	TGCCCLRKTDCCRRESARGVH AVYRRICARSMILLYRESVRPKA VTARVAVEAGIADYWKYVG LNGAIVGMTTFGESAPAELLFE EFGFTVDNPLASRAVRLRPFN NDQVEAAVGWKLAVRHNGP TALILSRQNLAQVERTPDQVKE IARGGYVLKDSGGKPDIIILATG SEMEITLQAAEKLAGEGRNVR VVSLPSTDIFDAQDEEYRESVLP SNVAARVAVEAGIADYWKY VGLKGAIVGMTGYGESAPADK LFPFFGFTAENIVAKAHKVLGV KAGSHIPRKKYDVPGKKSFSVP KYSTIGSPSPERPVSITTIPNSFVI ITANRVLHCNADTPEEMHHWIT LLQRSKGDTRVEGQEFIVVEKL IRGLAMEDSRNMFALFEYNH VDKAIESRTVVADVLAKFEKEP VGKHLPTYDGQIAMGLESTAS VTRKHSSPSSLQNALSCETATSL IERRVRMALGTGDRRGLNTWL ARLPMEAKEKDEWRYWQADL LLERGREAEEAKEILHQLMQQR GFYPMVAAQRIGEEYELKIDKA PQNVDSALTQGPEMARVRELM YWNLDNTARSEWANLLKNKS KPDRAHLPGYASTTQWWILSV QATIAGNLGDHLKERFPLANN DLSKRYTSGKKIPQSYAMAIAR QKSAWNPVKVSPVGASGLMQI MPGTATHTVKMFSIPGYSSPGQ
25594	55962	A	25735	1	1195	

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25595	55963	A	25736	1931	2676	FCGNTHQTYLGWVGGVANSEA *GEKWGTPDLVG/AERTETIQR LLGVCPEQGEGKIYIDGKQVDI RNCQQAIAQGIAMVPEDRKRD GIVPMAVGKNITLAALNKF ^T G GISQLDDAAEQKCILESIIQQLKV KTSSPDLAIGRLSGGNQQKAIL ARCLLLNPRILILDEPTRGIDIGA KYEIYKLINQLVQQGIAVIVISS ELPEVLGLSDRVLVMHEGKIK ANLINHNLTQEQVMEAAIRSE HHVEKQSV
25596	55964	A	25737	1491	1667	TNGQWRAFYC*MRSGRNIRRR GEDISGGAGVSPRESPE*REVPE MGPGGAANRGTKRV
25597	55965	A	25738	419	823	VTLVAITRPIHVNRLRQYLVAIS LNETFGPSCPKSRSPCSSLSTCC WNAGVMHKK*VQGGRLCSYR N*SICLVVISPVVMGKRCIS*RC TAVLAALT ^T TVPSGVVA ^A HSV MLPRLPMKRSSIVPLPSNWRTS
25598	55966	A	25739	591	968	VKQCKQADEH*EQSLIPLERRR TTPLSVPQL/GKALT ^T VSFCASG GTSVNSLSHTS*ECMASAVAVK FTFPNLAVNFCTAAMAGPKVA LTSTLARIQAGSLARTGGRAYR WSRSTMLAKSF ^W C ^L MA ^L
25599	55967	A	25740	764	1005	QARPRAPRRAPYPILIRSSII ^T LIY /DGQRLGHLDDGTD ^S WNH ^V PT LNGQCTLVLIHEYVD ^T RGPEIK TILVISWWN ^I LV ^F H
25600	55968	A	25741	463	786	
25601	55969	A	25742	3	646	
25602	55970	A	25743	1	3008	MTMLQIVGALILLIAGFAILRLL FRALISTASALAGLILLCLFGPA LLAGYITERITRLFHIRWLAGVF LTIAGMIISFMWGLDGKHIALE AHTFDSVKFILTTALAGLLAV PLQIKNIQQNGITPEDISKEINGY YCCFYTAFFLMACSDQRRLRG AMDKRYKFILVGFG ^E V ^F NLE SLDSGKKIHLLRRSHEEVMGSV MRTGTIDKGILPFIH ^T RGNEIL FIPALFILFSLGGAVFGMGEEAV AF ^A IIIA

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25603	55971	A	25744	2	3494	TITNLRPAAPGICEMAQGLSAG GEYTGASIFVAEYSPDRRRGFM GSWLDLRSIAEIELGAGGVGLIS TIVGEANFLDWGWRIFFIALPL GIIGLYLRHALEDTPAFQQHVD KLEQGDREGLQDGPVSLKEIA TKYWRSLLTCIGLVIAITNVITY MLLTYPMSYLSHNLHYSEDHG ALIIIAIMIGMLFVQPMGLLSD RFGRRPFVLLGSVALFVLAIPAF ILINSNVIGLNLLPAMFPTHIRYS ALLEMKN
25604	55972	A	25745	1	277	
25605	55973	A	25746	902	1006	
25606	55974	A	25747	2	1265	
25607	55975	A	25748	409	525	
25608	55976	A	25749	91	431	NHKPGNIDVARRIQRGFAGDQI GHLRPVERQCSPDKRRFIAADG REIRGKQRAGHIFQLLSRCLLQI LNHCQRRAAHFRFQLSNQRHQ QLLPV/HYHAAEREYPAGACLV RWLL
25609	55977	A	25750	3	71	
25610	55978	A	25751	1	1212	
25611	55979	A	25752	1	2786	MAAVIEQIRRAVLALVTGVVHP GDIPVVDIVWNATAAFIAVIII SLLDESGFWEAALHVLRWG YGPGRLPFNRIQLIRITRRIRQR LLFGLVTFILLNRSQNPAQDIQ LLAFRARTGKQTAQFIHHLPRM VFTDKTGSSNGLAPQGQCSAQ GELILNEKLAKQLVTAANWVK MQSDEGEINPVDILRWPGVMA AQEQDLDAIAAEILAADGTLD DFIVARETEGQSGLKRVYHSPG APDIREFTRDAIP
25612	55980	A	25753	5	402	EIFSVMWIMTRGDVVTISRWR VSSSPLETWNKRWAKISPAPFS LLPISRLEKSEGDWLPETVISAF NMPSSLSLISSL*FKVRDV*HFF /RI*TLRGHYRVINWPNFNIVVS QGIGKRLANSWLVTFLFHRI
25613	55981	A	25754	48	219	PETCGHLWAYVWPSCAAV\GL YFKVHVLG*RSVTPVTDIVKLL EFTRLRLPGYTKSIE
25614	55982	A	25755	1	912	

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25615	55983	A	25756	1	1857	MRVCARACVTRTRTRMCVYAH TCVCVRTYAYVRVRVRVHVRA RVRVCAYARTRVRNLSILPFIQ LTLATPIHHIHQEEFNIRGIVPVL RRVKPDLAIGIDITPSCDTPDLH DYSEVRINQGVGITCLNYHGRG TLAGLITPPRLIRMLEQTALEHN IPVQREVAPGVITETGYIQLFLP GWEIGFSPALALLAFLCSTSPGF GDPDGLGVIAYQDTPRPNAAAT AISELNALAVKGVILTGDNPRA AAAIAGELGLEFKAGLLPEDKV KAVTELNQHAPLAMVGDGIND APAMKAAAIGIAMGSGTDVAL ETADAALTHNHLRGLVQMIEL ARATHANIRQNITIALGLKGIFL VTTLDDRVRVAGSAGRYGGDGA GDSECVKIVAQEIRQTDNRNER DRSPRPSGERVRVRGKGGIEAN QPLSTAFTNQITIRQSIRLFSNQF VFHKGISRVVAGSSAIISNVSPG CILRTPNCRRGFPISCTGEGKAA YGWQRDGGHAEYLLAEKDLI LLPDALSYEDGAFISCGVGTAY EGILRGEVSGSDNVLVVGLGPV GMMAMMLAKGRGAKRIIGVD MLPERLAMAKQLGVMDHGY*I LPDVY/V*IGVARVSWMNGRID SELRTRVRAYAHTRTRARTCTR TRTRTYAYVRTHTHVCAYTHM RVRVRTHARAHTR
25616	55984	A	25757	3	1180	SKLGTRRSVVWA*SPSTSPTLW CSTFSAAGHSSMKRMNEFVDL LPAQQRMKGENWYRGTA TQNLDIIRRYKAEYVVILAGDHI YKQDYSRMLIDHVEKGARCTV ACMPVPIEEASAFGVMAVDEN DKIIEFVEKPANPPSMPNDPSKS LASMGIVVFDADYLYELLEEDD RDENSSHDFGKDLIPKITEAGLA YAHFPPLSCVQSDPDAEPYLAR CGYAGNFMESPRSGLIRVSCM PAGPPLPLPAARSEAPKAAGTV ASVPSIAPARLRPVPDPVELVLV AAEFITPGDPTPRLHGSGFIDIR QIHQTRSHLEGVKTGIRFLNH FSGNPQGGIAHVNGVARFQVK QCHQAWGQQYAARLRFQARGI SLQIAIHRVDIIHRFDVRQL
25617	55985	A	25758	16	543	
25618	55986	A	25759	1	3387	

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25619	55987	A	25760	1688	2234	LSVGKTFPVLPAAFRKVSATG AAVPGTPSILALPSYSTTPFGVC TSASMNVPLTLRIRTRVTGEV AAIKPFSMANAPTQDILPQLGV VSTRCS*TITCANR*STSARGSL ERLIMATLL/WVAGTFD*SVWF GHDTDVVTLYRFHEALCYSVT LRTPHRRVLRFKSQHPGELACFI SPVA
25620	55988	A	25761	905	4762	PPHNWMPSNATPGIAFVWCAY GAI/LPGDAPVPVDDYRKVVR KDTKGLIARWKYFWMSVIALG VAFALYLAGKDTPATQLVVPFF KDVMPLGLFYILLAYFVIVGT GNAVNLTDGLDGLAIMPTVFV AGGFALVAWATGNMNFASYL HIPYLRHAGELVIVCTAIVGAG LGFLWFNTYPAQVFMGDVGS ALGGALGIIAVLLRQEFLLVIM GGVFVETLSVILQVGSFKLRG QRIFRMAPIHHHYELKGWP
25621	55989	A	25762	1	1448	MCHVLLAGRQRRTAGPEHALT PPECGSAAGPAVYKWAHATG VMIPDRPRSPHAGAEERHWHH PQPELISQRLGSFSSGPTKYIHEF QYLTLSYNLTWSDLVILTFILP LDEWERVFSLAQSHTDNCRLH KPDLEGEIREVPQEDPQWNYQ ENSPGIARRDYMISCLVEGLKK AAVKAINYDKLKETTQGTDKN PAQSMACLAATMRHFAALDPE ALAPHRDVNHGIKLTCKTIRSSI DISREIRAPRECRSTEMASWHPP ADLTECPVESGYSVLSGRDTCQ YSHTVRRACLTIDSRPAVRQL LKIREVQLLSLLRGCVSRRRSGS INAQYCRCLERVVTLPPFFDSGPS LMNHAPHLYFAWQQLVEKSQL MLRLATEEQWDELIASEMAYV NAVQEIAHLTEEVDPSTTMQEQ LRPMLRLILDNESKVKQVLQIR Q\DG LAKLVEQLRHLSKKHHLD TDSTSSSLPGVRTPYSPIRGEE

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25622	55990	A	25763	1029	1665	RPESISSVASKTRLGRSFHGAAR RTREYHSSTCNASIAAAATVAA AQGHPDTTSTPPASVDTTATNT QTPAVTAPAPAVDPQQNAVVS PSQANVDTAATPAPTAATTPDG AAPLPTDQAGVTPVADPNAL VMNFTADCWLEVTDATGKKLF SGMQRKDGNNLTGQAPYKLL IGAPAAVQIQYQGKPVDLRFIR TNQVARLTLNAEQSPAQ
25623	55991	A	25764	658	1307	SNRLYTDVESINEIEGIYMKLRF ISSALAAALFAATGSYAAVVDG GTIHFEGELVNAACSVNTDSAD QVVTLGQYRTDIFNAVGNLSAL IPFTIQLNDCDPVVAANAFAF SGQADAINDNLLAIASSTNTTT ATGVGIEILDNTSAILKPDGNSF STNQNLIPGTNVLHGLAFRRAR CVSTANLRVPRPICFDPGSSYQA NTIGSGRCADCQPDA
25624	55992	A	25765	167	232	
25625	55993	A	25766	441	686	
25626	55994	A	25767	206	331	
25627	55995	A	25768	674	900	VVPICTMLEEALERQNLTA SLC G*LKKACGRSWQTSPIKRSLNG AKFSRTSIIMGFITA EKWSGW EWSARNVTS
25628	55996	A	25769	41	222	
25629	55997	A	25770	17	525	ESLECSGPSWNASGTQSGFYCH RIAPILPEKRLARMVEKTWGLG LRRRTGFRQNLGGGTGLVE CTSENSKPSKSSFRKQRRGQRR EGH*SLRR*IRRERTERMQASR VTWNSFPQVPA AKKPSSLSESG *P*ATNYTREQDSMWNCVHHY WQPPTS VSRVLHLSNG
25630	55998	A	25771	698	1051	PYLRIRLTALISRSSTVMRILFAI SKRPIT*PKRPKPTMTWGLSSL THGFSSSSGPLNWRD SHLSTSF ISNGVVIMESVTVT SNNAIWSPS SSVAAVNTSRTPEAAIKRNTGR SK
25631	55999	A	25772	1	2204	

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25632	56000	A	25773	3	891	RYRNQDDHELQIHTGTRFYVEL CGFRVNPPWLATDVTHAAMAL LTLVTTGLHIVGEWGKHATPPV PYSICSNPPRAAYITVWRNRPC TLGDHLFSIAYPRGLRYDMGG GEGTAWANVRQALARTTGR AQHWTKDNAKSSREARHPRQN KTKTHLGKPVLRWV/DPSFDQS KYDSIVWNPI/TYYVPVKPSTQV GQKV/LDKILNYTNTEMKEAIA H/DTSKEGLQFYEVVPVALVVA GTQMATGLRTMDTRYFEGELI DAAPNKPVIKVVRRQGEEDWP SKGDAGDGEKVPSSLSESG
25633	56001	A	25774	1	285	
25634	56002	A	25775	1	302	SFSSFTQRTASVIISSTSTQSRLA TSPILAIARARTSRRCPEKPQLG YPDSAAHVFFQQRATKYVINR NSKKP*ICSACRSTVSTRQHRR WRGSLQPLSQ
25635	56003	A	25776	307	473	
25636	56004	B	25777	67	809	
25637	56005	A	25778	44	301	
25638	56006	A	25779	1	1519	MINRLQHTVYTHKWNSYRTEP DRRHTALRNSFCLVRLNDSSH RSLDSKQGHTEITFAATEHPPSP VSLRIHDVAFDDGRQTSRAPCF NLEQPGKLDCTKRLISDCWVM HPGESWHGFKDIPDNWSMLDPI KISILAPGMGEDGELEETGVPA ALVTAWLGRHGIVPTRTTDFQI MFLFSMGVTRGKWGTLVNTLC SFKRHYDANTPLAQVMPELVE QYPDTYANMGIHDLGDTMFA WLKENYSGARLNEAYS/GLPSII ERHVVDAAQGYRGGGMLCSCS NFCVSLRLIQAS
25639	56007	A	25780	461	789	HHVLSELQQLYTAYRSVDHIID HSLAIARAPQRRRCPEKPQLGY PDSLQHVFFQQRATKYVINGTS KKP*ICSACRSTVTHGHTDAGE EVWNPFAVLVPSGKDARVWG
25640	56008	B	25781	1	990	
25641	56009	A	25782	1	3066	
25642	56010	A	25783	583	904	WGIRTTDFQIMFLFSMGVTRGK WGTLVNTLCSEFKRHYDANTPL AQVMPELVEQYPGR*FTGVRK KSNN*FRQFGGVDTAGNNLSEI FSASASAEIFPANSFCNRLA

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25643	56011	A	25784	331	660	TGIQLPGAP*SQPWSTRRRRAVV RPLYRVN*AVP*NR*VIRSKRA MPKRTDIKSILILGAGPIVIGQRL GWRDSDGVRLCGVLGSQENVC ELDEKGEERWSISGTSSEFTR
25644	56012	A	25785	1	798	MSDAEDGARTTLGSGNAVERL ADALSQQNVTVIKSTSLDDGFA ILSSNEAIDCLMFSYQMEHPDE HQNVRLIGKLHERQLNVPVFL LGDREKALAAMDRLLELVD\ EFAWLEDTADFIAG\RAVAAM TRYRQQLLPPLFSALMKYSDI/Q SEYSWAAPGHQGGVGF\TKTPA GRFYHDYYRLLRVAWVLHKTE CRLINFPETPIFGNSFRYDIEVSN ESPDEEVKLRRHHLARCMKNF KTDIYFVSTFEPSTKSVDLLTVE TFAGT
25645	56013	A	25786	211	414	RVCECIQLRRIEIFRMISSQPNL PEDLHPQIIAKPSQKRLIEQ*SSK LTVTKARRQGSRYKSSRFFS
25646	56014	A	25787	1694	4974	LSLLSAK/PVYVMVPSRNRVGIIG PI/YPQEMQPETLQKKISE/SPLT KDKAGQKPSYCVV/TNCTYDG- VCYNAKEAQD/LLEKTSDRLHF DEAWYG/YARFNPIYADHYAM RG/EPGDHNGPTASYIHVREGV GRLNFFRFNQAYMMH/ATTSP YAICASNDVAV/SMMDGNSGLS LTQEDCWVMHPGESW/HGFKD IPDNWSMLDPIK/VSILAPGMGE DGELEE/TGVPAALYSNLCLSSG TTGLSTEALLE

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25647	56015	A	25788	1	1709	MSKPKYPFEKRLEVNVNHYFTT DDGYRIISARFGVPRTQVRTWV ALYEKHGEKGLIPKPGVSADP ELRIKVVKAVIEQHMSLNQAA AHFMLAGSGSVARWLKVYEER GEAGLRALKIGTKRNIAISVDPE KAASALELSKDRRIEDLERQVR FLETRLMYLKKLKALAHPTKK LSASLTSMRTLKSVFSEIYHENR GRYGYRRVTLSLHREGKQINH KAVQRLMGTLSLKAAIKVKRY RSYRGEVGTAPNVLQRDFKA TRPNEKWVTDVTEFAVNGRKL YLSVIDLFFNNEVISYLSERP MNMVENMLDQAFKKNPHEH PVLHSDQGWQYRMRRYQNILK EHGIKQMSMRKGNCLDNAVVE CFFGTLKSECFYLDEFNISELK DAVTEYIEYYNSRRISLKLKGL TPIEYRNQTYMPRVNCPFLDTL RIPDIGGVVRARAIAKLLNDTD MAIIDKRRPRANVSQVMHIIGD VAGRDCVLVDDMIDTGGLCK AAEALKERGAKRVFAYATHPIF SGNAANNLRNSVIDEVV/DLRY HSAER*NQITAERAYSDPVRKI
25648	56016	A	25789	2902	3271	SSAARHCAGCGDVRSVCRSGR ADAPRMHPGESWHGFKDIPDN WSMLDPIKISILAPGMGEDGE/P TRTTDFQIMFLFSMGVTRGKW GTLVNTLCSFKRHYDANTPLA QVMPELVEQYPAFVINQ
25649	56017	A	25790	185	663	SPVPSSRPSTRHRLPDGSSSSQFS SAIAARKVVNSCILCSKICQN*F NRRASPLKRLP*SGASGMITP NQPAPAQ/PAK*LYTRLDEVKP* *KITHGNGVSFCPTG*A*RTGIS ASSRDLEVQSKKRSFPALNWPA VYCCSALGSAPKCKPIPLRAT V

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25650	56018	A	25791	684	4208	NGLFWLFQPWLFADETRRRLE ERFRDRYQIIHHSSQVCHSDQA VYVLTQERVNERDDIVIDLFV IDEFYKLAFRQLKSGDIDHQDE RVIELNIALSKLLKVSRQFYLTG PFVNSIRGLEKLGYPHTFVSTDF NTVALDVKTSASKRMTTKPSS KRWGKSRTCVDADHIKNGIGL HFGALPRALQQYTADQFNAGK LRFLCTSTHIEGVNTIAKNVVIY DNRAGSTRTISADIINSVICGLN TLKSFDRWALL
25651	56019	A	25792	1	896	
25652	56020	A	25793	231	721	IITAEGRSREQQLAILPLNLAD MRQLQQHSQTRLADTAADGL RHFTAQQRLMPLQLQAIFVTGQ RQLMLQRVGYR/LHGSPWRKA QTHLPVPGSTPEYRRSDPHGPA LTGCSSHHNPVRARRGMTIAQL AANPDKEYRARSFAIARSRPLA SRSGYETVTPGC
25653	56021	A	25794	1	933	MLEAAVCLCVFVSCSLAEGRA CCRVAVSIPVSVRARIHLLSDH LGRFREPKSIPRKDAQMDTFRT MVREPATFLDQVDGLQQSDDIL RLLPELATLGITELEYEFYRRL VEKQLLTYRLHGESWREKVIER PVVHKDYDEQPRGPFIVCVDT GSMGGFNEQCAKAFCLALMLI AIANKWRCYIMLSSITEIVRYE LSGPQGIEQAIRFLSQQFRGGTD LASCFAIMERLQSREWFDADA VVISDFIAQRLPDDVTSKVKEL QRVHQHRFHAVAMSAHGKPGI MRIFDHIWRFDTGMRSLRLRR
25654	56022	C	25795	83	1108	
25655	56023	A	25796	1	747	

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25656	56024	A	25797	25	1741	IMERLKRMSVFAKVVEFGSFTA AARQLQMSVSSISQTVSKLEDE LQVKLLNRSTRSIGLTEAGRIYY QGCRRMLHEVQDVHEHLYAL NNTPIGTLRIGCSSTMAQNVI.A GLTAKMLKEYPGLSVNLVTGIP APDLIADGLDVVIRVGALQDSS LFSRRLGAMPMVVCAAKSYLT QYGIPEKPADLSSHSWLEYSVR TDNEFELIAPEGISTRILIPQGRF VTNDPMTLVRWLTAGAGIAYV PLMWVINEINRGELEILLPRYQS DPRPVYALYTEKDKLPLKVQV VINSLTDFVETPTPLSSLTSLPT IEICCMVSIPGTNQRLRPFTGFA THRLQSDLLLQVMTISRGRFSR SARFNGPTPSGRRIRVIISTESG SRSSNPRTTGCFEEHCDHYRAII DSADGLPMVVYNIPALSGVKLT LDQINTLVTLPGVGALKQTSGLD LYQMEQIRREHPDLVLYNGYD EIFASGLLAGADGGIGSTYNIM GWRYQGIVKALKEGDIQTAQK LQTECNKVIDLLIKTGVRGI.K TVLHYMDVVSVP LCRKPF GPV DEKYLPELKALAAQQLMQERG
25657	56025	A	25798	1	1005	

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25658	56026	A	25799	1	2392	MEMVAASKMRKSQDRMAASR PYAETMRKVIGHLAHGNLEYK HPYLED RDVKRVGYLVVSTDR GLCGGLNINLFFKLLAEMKWTW TDKGVQCDLAMIGSKGV SFFNS VGGNVVAQVTGMGDNPSLSEL IGPVKVMLQAYDEGR LDKLYI VSNKFINTMSQVPTISQLLPLPA SDDDDLKHKS WDYLYEPDKA LLEQCSCMLRSPA WGITSTDTT RARTDLACPIWLLLD PYPKLMG NAPKALASVDKRGVPVNTILVS ALVTALCVLINYLAPESAFGLL MALVVSALVINWAMISLAHMK FRAKQEQGVVTRFPALLYPLG NWICLLFMAAVLVIMLMTPGM AISVYLIPPLQTNTFNSTTIAMA DYQMESLSAEINFAAAKLARA CADEWTARTPEKPRYVAGVLG PTNRTASISPDVNDPAFRNITFD GLVAAYRESTKALVEGGADLIL IETVFDTLNAKA AVFAVKTEFE ALGVELPIMISGTITDASGRTLS GQTTEAFYNSLRHAEALTFGLN CALGPDEL RQYVQELSRIAECY VTAHPNAGLPNAFGEYDL DAD TMAKQIREWAQAGFLNIVRGC CGTTPQHIAEMSPGRKRLTRAE SSSV PSTLP GKAWLEHALPLIAE QL/QGRRSAVFIPFAGVTQTWD DYTAKTAAVLAPLGVS VTGIHS VVDPVAAIENAEIVIVGGGNTF
25659	56027	A	25800	412	1115	LAGEVMDLLLLSNSTLPGKAW LEHALPLIAEQLQGRRSAVFIPF AGVTQTWDDY TAKTVAVLAPL GISVTGIHSVVDPVAAIENAEIVI VGGGNTFQLLKQCRERGLLAPI TDVVKRGALYIGWSAGANLAC PTIRTTNDMPIVDPQGF DALNLF PLQINPHFTNALPEGHKGD PRL FRVIRELLVVAPELTHIIGLPEGNW ITVSKGHATLGGPNTTYVFKAG EEAVPLEAGHRF
25660	56028	A	25801	1	360	MDHAIAGIAVQFRGNNLLRFK AFQQRVKYRMCQAERAINRLF NIAVKRLTGNRLDDKSKQHII DI AVDIPKWS DHLHIIRRKHH DPT QDSGTHLPAVADDGFR TSVRN RSA*HIRYLTRC*KALNRNKLPP RN*TAIPAMA

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25661	56029	A	25802	1032	1233	LVQFLRICFHILQRF/LPSH*RQK DESLRALPVSFLCWRTDSDFP DISYQNYR*YNREPYLPRPDSG
25662	56030	A	25803	1	1394	MTRDGLANKALAVARTLADSP EIRQGLQKKPQESGIAIEAVR KRNDLLFIVVTDMQSLRYSHPE AQRIGQPFKGDDILKALNGEEN VAINRGFLAQALRVFTPIYDEN HKQIGVINDSRWSIHSVLFGM LVGLIGTCILVKVLKKILFGLEP YEISTLFEQRQAMLQSIKEGVV AVDDRGEVTLINDAAQELLNY RKSQDDEKLSTLSHSWSQVVD VSEVLRDGTTPRDEEITIKDRLL LINTVPVRSNGVIGAISTFRDKT EVRKLMQRLDGLVNYADALRE RSRLEHILHNQRPFIMKLHHR MLRHFAASVIVLTSSFLIFELV ASDRAMSAYLRYIVQKADSSFL YDKYQNQSIAAHVMRALAAEQ SEVSPEQRRAICEAFESANNTH GLNLTAHKISRAYAAYKPHPL TATQLWKIRSTITRF*SGSGRQP PPG*LRFRSWDGRREISLLSRSL
25663	56031	A	25804	3	219	
25664	56032	A	25805	14	265	
25665	56033	A	25806	744	1566	FASWLRVFSITNCAAPVTSESC ALDLGSAEAKAWIGVENPHRA DVLTELRRSTVARVCTGRAGPR PRTQALLRFLADHSRSKDTVLK EVPEEWVKAQGLLEVRSEISDK NLYLTRPDMGRRLC AEAVEAL KAQCVANPDVQVVISDGLSTD AITVNYEELPPLMAGLKQAGL KVGTPFFVRYGRVKIEDQIGEIL GAKVVILLVGERPGLGQSESLS CYAVYSPRMATTVEADRTCIIY NIHQGGTPVEAAAIVVDLAKR MLEQKAFGINMTR
25666	56034	A	25807	596	745	
25667	56035	A	25808	151	660	STTERLGDDFVRAANIILHCEG KVVVSGIGKSGHIGKKIAATLA STGTPAFFVHPAEALHGD LGMI ESRDVMLFISYSGGAKELDLIIP RLEDKSIALAPNSRTVIT*CWFS AGDGGLPDPYGGQDFAAHPAG AGALYKCRDLINDNILRTVSCQ SHDDGDIRGMAFARQ
25668	56036	A	25809	314	583	
25669	56037	A	25810	1	2982	

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25670	56038	A	25811	120	790	EGLKTKGEKASPPSCLSFCKNE FVISSTDYALSQSQSGGVMHRQ SFFLVPLICLSSALWAAPATVN VEVLQDKLDHPWALAFLPDNI GMLITLRGGELRHWQAGKGLS APLSGVPDVWAHQGGLLDVV *APDFAQSRRIWLSYSEVGDDG KAGTAVGYGRLSDDLKVTDF RAVFRQMPKLSTGNHFGGRLV FDGKGYLFIALGENNQRPATAQD HRVPSWYK
25671	56039	A	25812	707	1141	ASHTATSPRPVRLSSSIASITLAV NATCGMASSRRIR*CTLFCKRA PSAPAGWERAKSSSLNPRACMT AIASASPIIRVLTVLEVGA KCIG QGSRSDESTLSPFIKMVPPNSLT TALAVIPPFSLSDTLPEVLISLSLI YNTLF
25672	56040	A	25813	215	2160	EINSITSRLSIIPRSPCSASAGWT KKAGVPVLASVAAIFLPMWPD LPIPETTTLP SQCKMILAA RTKS SPR/RSNIMTHIRIEKGTGGWGG PLELKATPGKKIVYITAGTRPAI VDKLAQLTGWQAIDGFKEGEP AEAEIGVAVIDCGGTLRCGIYP KRRIPTINIHSTGKSGPLAQYIVE DIYVSGGKEENITVVGDATA PQP SFVGPDYDTSEKLMIVRKKPIG VQMLYQVGTVSMLLYTRTHIQT KMTPTRTIVTISHSVRNAGDSFFS IASNQPMPTAKKIEPLAISLLS AEAPTRLSELKARIGEP RWSIEA IKPMPISTHKNMQAITPPARRA ILSPCACESRSRQEP CPGCHCS CPNHSCRSRLKGVLSMEQYLL QQKHVGTPPGPFRPPDTNQPCW KTKPSQREEYTRRVGFTGHSNQ GAKIIRTHIICRRRTSFALERPGD GFQAVVGGTVLMGLPRTKNVG LPVTILGRVHRRSSERFPRTSES AINRKDAGPKDPVRQRLAYKK HPMERRHGPHVVARTFGRAIPT LGPHRTVLSTRFQVAKNPLGPI GPSPLAVLTWTVP RPKNGRRG GKQRARIICQSRREASCNNVCL ARSSGVFKGFSPVSSSGEHTGN KYSAYSFSLCPLFVFLPLSGRLI

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25673	56041	A	25814	11	613	RLSSVFVSKSLASWRSCNCSFS GPLVRLTIRPLSPDVRLLSPS VVHAYNCPHQETQRHHTHHLT P/RLPNHGQIAISAMVYSSPATN/ SMLRQLLIQHVEQIGSVPLVMD AISLVEAHD/RSAAG*SRPLY*R AN*SSRY*VSYARKRVRQAKSR /HGKPSKKVLAKRAVPNRVCRC CNRVKRRCICQPKRRKCMTLPV RATR
25674	56042	B	25815	1	1920	
25675	56043	A	25816	247	1182	EAVMRQTKTGILLANLGTDPDAP TPEAVKRYLKQFLSDRRVVDTS RLLWWPLLRGVILPLRSPRVAK LYASVWMEG/GSPLMVYSRQQ QQALAQRLEMPVALGMSYGS PSLESAVDELLAEHVDHIVVLP LYPQFSCSTVGAVWDELARILA RKRSIPGISFIRDYADNHDYINA LANSVRASFAKHGEPDLLLSY HGIPQRYADEGDSLRELYAVA NPNPGPGMGVLLAYMFFGRGS AKQSAGGSGLDGLLRTPPITP GGYFSVFVWKSLSWRSCNCS FSGPLVGLTIRPRFTAGRSPTSF AQRCTCL
25676	56044	B	25817	1	651	
25677	56045	A	25818	1	1647	
25678	56046	A	25819	1	1506	

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25679	56047	A	25820	645	2161	LDRCALNVTAQPSIECQVANAC LSPKGEFEYLQIDAPTPQALLSE IEKCWHRHRNVWPDHTINLAL AIHGQVDPVTGVSQTMPQAPW TTPVEVKYLLEEKLGIRVMVDN DCQLHYCKTAILNWSRKMALS RQKFTFERLRRFTLPEGKKQTF LWDADVTTLACRATSGAKAFV FQSVYAGKTLRMTIGNINDWKI DDARAEARRLQTLIDTGIDPRIA KAVKIAEAESLQAESRKTkvTF SVAWEDYQLQLRTGISAKTKRP YSTRYIADHINLSSRGGESPLGL LLLAFTLFGKGMKRSAPGAMI IHFLGGIHELIFPYVLMKPLTH AMIAGGMSGTWMFNLLDGGL VAGPSPGSIFAYLALTPKGSFLA TIAGVTVGTLVSFAITSLILKME KTVETESEDEFAQSANAVKAM KQEGAFSLSRVKRIAFVCDAG MGSSAMGATTFRKRLEKAGL AIEVKHYAIENVPADADIVVTH ASLEGRVKRVTDKPLYGPAVV
25680	56048	A	25821	2	341	
25681	56049	A	25822	218	469	LICAQGRRSPSRESTRQPKVLTL ACHNGSVSVVVVLSPLNSLYIEVV VPS*CNAATGPVVTCLYKKGKFQ PILILLVTSTRVSSCI
25682	56050	A	25823	1	3966	
25683	56051	A	25824	2	728	
25684	56052	A	25825	528	1123	DAEEGPDHRYLSSAHGGGSAS QPPSCAVTACRWPWRGRGCRA GVWNQPTAAQGRSWPVGKTSC *GQGSTCKSQTWGFRGQRLPQ DAPAPPASLCASFHLVEAGASA DSGDTRRMTRIR/FASKTVARAK RIIRVLRFSPLWVATRLASTAI KIACCASEPGSFLQLWKPRSMA PVHRCRWHEACPEGQRQMSCV SSTGL
25685	56053	A	25826	1	492	

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25686	56054	A	25827	1740	3858	ADAAGTEKTATVSRYHFYLRYP RSGRSVIDVRSWWRFSIMDAL SRSIPRAISICARGKPVVTAKFK QGTMPSPNSKAIILPIRFFPGVV LMIKKSGGRWQLSLLASVVIS AFFLNTAYAWQQEYIVDTQPG LSTERYTWSDHQPDPYNDILSQ RIQSSQRALGLEVNLAETPVD VTSSMSMGWNFPLYEQVTTGP VAALHYDGTTSMTNEFGDST TTLTDPLWHASVSTLGWRVDS RLGDLRPWAQISYNQQFGENI WKAQSGLSRMTATNQNGNWL DVTVGADMLLNQNIAYAAALT QAENTTNSDYLYTMGRTRWL TLIGTIITQFALGSVYTWSLFNG ALSAKLDAPVSQVAFSFGLLSL GLAISSSVAGKLQERFGVKRVT MASGILLGLGFFLTAHSDNLM MLWLSAGVLVGLADGAGYLL TLSNCVKWFPERKGLISAFAGS YGLGSLGFKFIDTQLLETVGLE KTFVIWGAIALLMIVFGATLMK DAPKQEVKTSNGVVEKDYLTA ESMRKPQYWMLAVMFLTACM SGLYVIGVAKDIAQSLAHLDVV SAANAVTVISIANLSGRLVLGIL SDKIARIRVITIGQVISLVGMAA LLFAPLNAVTFFAAIACVAFNF GGTITVFPSLICGSHASLFGGFY VTFYVIFALLILSLALSTTIRQPE QKMLHFTYLTTSALFPAGPKRN
25687	56055	A	25828	2	356	
25688	56056	A	25829	1	1307	MYETLEEVLRSSGDPADQKYV ELKARAEKALDDVKKRKLVC WRRRQICALRRISRSPYPGHQL ECIASFDRNFEAMQKEMYGQF ENTFMMYLPRLCEHCLNPSCV ATCPSGAIYKREEDGIVLIDQDK CRGWRLCISGCPYKKIYFNWKS GKSEKICFCYPRIESGQPTVCSE TCVGRIRYLGVLLEYLTAQQFF PVWPPDHFVHPF*TLYVLPAPP SR*CDRVQLMASLQSVARASRE YRWYGFSR*TPRKALALAQLRP AESSPTAPDCN

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25689	56057	A	25830	583	1369	RHQLNSIASPAGGRWKDIGWF NFPQSNLCLKREKQDESCSLTQ ALPSELKVSADNVSLTGAVSLA SMLTEIFLLQQAQGMPEPGWG RITDSHQWNTLLSLHNAQFYLL QRTPEVARSRATPLLDLIKALT PHPPQKQAYGGTLPLPVRFMA GPDNTLANLGGALKFNWTLPG QPDNTPPGGELVFERWRRLSDN SQWIVQSLVFQTLQQMRDKTP LSLNTPPGEVKLTLAGCEERNA QGMCSLAGFTQIVNEARIPACS
25690	56058	A	25831	199	543	
25691	56059	A	25832	1	642	EASIFRRLSVYDNLMAVLQIRD DLSAEQREDRANELMEEFHIEH LRDSMGQ*SARPGRCRAGAQ* CV*CR*PRSGQPRQTVRRAE*IS DSQPVRGQFLHG/VRSPPESDCP MLSRRCM*NSSISSFARSSRCS ADKSSRICSTAIRLS
25692	56060	A	25833	3	329	
25693	56061	A	25834	1974	2195	
25694	56062	A	25835	1	615	
25695	56063	A	25836	2	166	
25696	56064	A	25837	2	189	STPGNWRFTTTYPLNCATRWK M*FLIVATMAPSVYWSLPRNIA AAKPTTPPTPSRRSGARGK
25697	56065	A	25838	64	354	
25698	56066	A	25839	1123	1845	
25699	56067	A	25840	1120	2097	
25700	56068	A	25841	124	548	CRQMVGTRRGGEQGKEVIDGY GKPATFYQMQDNGKPVGHAS QMHYELAKDFVVLGTGNAYLQ QVDSNIKGDKITYLVKEQKMQ AFSDKGKRVTTLVPSQLAKA YKG\VAW*KTSA*PSTPGKLSV CWGQTPVVRPPLSTWL
25701	56069	A	25842	77	514	
25702	56070	A	25843	2487	5738	RRAAGLPGRNDAGLARSHQWA GSADTGSEKQHELQLRIQGEPV SGQLNLGSAFDRKEERWKG\TL SNTRFQTPVGPWSLTRDIALDY RNKEQKISIGPHCWLNPNALC VPQTIDAGAEGRAVVNLNRFD LAMLKPFMPETTQASGIFTGKA DVAWDTTKEGLPQGSITLSGRN VQVTQTVNDAALPVAFQTLNL TAE LRNNRAELGW TIRLTNNG QFDGQVQVTD PQGRRNLGGNV NIRNFNLAMINPIFTRG
25703	56071	A	25844	538	777	

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25704	56072	A	25845	489	2797	TRRRRRTMIALIQRVTRASVTV EGEVTGEIGAGLLVLLGVEKDD DEQKANRLCERVLGYRIFSDAE GKMNLVHQAAGSVLVVSQFT LAADTERGMRPSFSKGMSQLP GLSRETRESIAMYHLRVPQTEE ELERYYQFRWEMLRKPLHQPK GSERDAWDAMAHHQMVVDEQ GNLVAVGRLYNADNEASIRFM AVHPDVQDKGLGTLAMMTLES VAPYFSGSETGMMTLNRYRLR HMAKQGNRSKRVEKLLRKPD RLISLVLIGNNLVNILASALGTI VGMRLYGDAGVAIATGVLTFFV VLVFAEVLPKTIAALYPEKVAY PSSFLLAPLQILMMPLVWLLNA ITRMLMRMMGIKTDIVDMLLS VLDLEKM/TVDDIMLPRSEHGI DINDDWKSIL/R/QLSHSPHGAIV LYRDSLDDAISMLRVREAWRL MSEKKEFTKETMLRAADEIYFV PEGTPLSTQLVKFQRNKKKVGL VVNEYGDIQGLVTVEDILEEIV GDFTTSMSPTLAEEVTPQNDGS VIIDGTANVREINKAFNWHLPE DDARTVNGVILEALEEIPVAGT RVRIGEYDIDILDKLSFCFRYSN HRRTNRTTIQRITFLHNAQYVT WRNVIRFHHCDGLMHIRVQWD VSFGDHFNAKLTHNIQHRLQRQ LNAFNHRRHIRVSFISHFQRTIQ AINHRQQFVDEFLQREFVGGFFNI
25705	56073	A	25846	87	199	QPASVQTAGAGCRL*LHQRQW RECLVLDSKRRGDGVL

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25706	56074	A	25847	1167	3306	GKSMDKELPWLADNAQLELK YKKGKTPLSHRRWPGEVSVIT GSLIQTLDGDELLQAEKKKNIV WRYENFSLEWQSAITQAINLIG EHKPSIPARTMAALACIAQNDS QQLLDEIVQQEGLEYATEVVIA RQFIARCYESDPLVVTLQYQDE DYG YGYRSETYNEFDLRLRKH LSLAEESCWQRCADKLIAALPG INKVRRPFIALILPEKPEIANELA VPALREFLAATKMPATCTLKGL GAVEADYPYYLGMMLGMHGTK AANFAVQECDLLIAVGARFDD RVTGKLNTFAPHASVIHMDIDP AEMNKLRQAHLRDEHSWRYD HPGDAIYAPLLLKQLSDRKPAD CVVTTDVGQHQMWAAQHIAH TRPENFITSSGLGTMGFGLPAA VGAQVARPNDTVVCISGDGSF MMNVQELGTVKRKQLPLKIVL LDNQRLGMVRQWQQLFFQER YSETTLTDNPDFLMLASAFGIH GQHITRKDQVEAALDTMLNSD GPYLLHVSIIDENLVWPLVPPG ASNYKKHHKLKQTFGVKIIPDV HDPSQAQPVADVNNVIQLPAFL ARQTDLVETHGENRPGQMNI VDKFKEGGNEKVILCDRGANF GYDNLVVDMLGFSIMKKVSGN SPVIFDVTHALQCRDPFGAASG GRRQAQVAELARAGMAVGLAG LFIEAHPDPEHAKCDGPSALPL
25707	56075	A	25848	1	695	MATRASVTPMSLFSAGTCLLST SCVLSVPGDTAEESCWQRCAD KLIAALPGINKVRRPFIALILPEK PEIANELVGLECPRTHFHSKEW LKVVANDPTAVRKLEHYWSQD IFSDREASYMSHENHFGYAACA ALLREQGLAAIPRLAMYAHKE DCGSLLVQINHPQVIRTLALLVA DKNKPSLQRVAKYHKNFPHAT LAALAELLALTEPPA/RPWLSN HRRQKAACAKSTR
25708	56076	A	25849	823	1091	CVRFARINCSDRRSRCFAGFNH VLNKA LGVHINHFG/YSACAP* CRYPPHAAGEFYDPCHRGTT GYRHRQGYPPPGEPPIRASWLD LR
25709	56077	A	25850	714	875	EFSSARISRTSRLKYTNGCCRL WSAFCRLRTATTVPARP*QLR PDRSRAQCQ

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25710	56078	A	25851	2730	2893	WPVGERLAPGDYPVI*TGQLCT AAGD/EWRR*KVRRHQPLWRG FPNRRYMAWRSA
25711	56079	A	25852	750	929	SFHPAGRRYLYRHSSRSNGNITN GCCRLWSAFCRLRTATTVPPAR P*QLRPDRSRAQCPV
25712	56080	A	25853	2	2427	CRQHHRWHSGSTAVYRRVLITS KCWNVFIRTKTWTVSILTTSVV CASARRVCVPAPRAVSSRCLSV TTLIPSASTPW*LAHRISLAAR* AFWFNCRIPAGIDNVKVLRIH PDKDVGDFHPYNVGRLCQRAP RLRPCTPRGIVTLLERYNIDTFG LNAVVGASNIVGRPMSMELL AGCTTTVTHRFTKNLRHHVEN ADLLIVAVGKPGFIPGDWIKG AIVIDVGINRLENGKVVGDVVF EDAAKRASYITVPPGGVGPMT VATLIETRYRQGMFDGSSIGG WKGINESDMVLMPDASTAVID PFFADSTLIIRCDILEPGTLQGYD RDPRSIakraedyLRSTGIADT VLFGPEPEFFLDDIRFGSSISGS HVAIDDIEGAWNSSTQYEGGN KGHRPAVKGGYFPVPPVDSAQ DIRSEMCLVMEQMGLVVEAHH HEVATAGQNEVATRFNTMTKK ADEIQIYKYVVHNVAHRFGKT ATFMPKPMFGDNGSGSPSPQPQ SQPTPPEILLQALLSAGCFYAVY YVTYKTRLRKRADVPRRPLFT MNRVETNLTWVILMGIALVSV GIFFMHNGFLLFRLNSYSQIFSS EVSGVALKRFFYFFIPAMLVVY FLRQDSKAWLFFLVSTVAFGLL TYMIVGGTRANIIAFAIFLFIGII RGWISLWMLAAAGVLGIVGMF WLALKRYGMNVSGDEAFYTFL
25713	56081	A	25854	502	885	
25714	56082	A	25855	233	738	SNSCKRTKIISDVTSVFHAIFPAI KITAPNSPRLRVNDSATPLTSAG ESSGSTTLQKLCQRVAPSVSAA SSYSGPNLFQHRLHGHGTHPKRNA GKGHSHRNPQCIGDFDIKLRQ PFTVKTLVYKEKGQR*GGDRV LPAQRVNPSAHQAACGLGSDS GLGSTPSADRKRR

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25715	56083	A	25856	1	2363	MRRQDTGRRGRKRRDAGRWQ WRYWGKGSFTPMNATWDVAG KGEWHDSTITLTDLSTGFDQLQ YGTMTVEKPRILDKPIVWVRD AQHPSFSGALSLDAGQTLFTGG SVLPPSTLKFSVDGRDPTYFLFK GDLHAGEIGPVRVNGRWDGIR LRGNAWWPKQSLTVFQPLVPP DWKMNLRDGELYAQVAFSAA PEQGFRAGGHGVLKGGSAWM PDNQVNGVDFVLPFRFADGAW HLGTRGPVTLRIAKQRKEMRN NNLRQFKLLGPDVGFDSDNRP MAEELSKLLSKQNEENLLPKTI LYCLNPRDNEVLGTMIENGASF AANPLYFDPKNIVELAIEAGCN CVASTYGVLASVSRRYAHRIPF LVKLNHNETLSYPNTYDQTLY ASVEQAFNMGAVAVGATIYFG SEESRRQIEEISAAFERAHELGM DGGWIGLMIKPLGRWSLIMEID EGFAVGMSPAELSAEQLLSKL WLWEGKAERYGWGRKSMDKE LPRLADNAQLELKYYKKGKTPLS HRRWPGEVSVITGSLIQTLDG ELLQKAEEKKNIVWRYENFSLE WQSAITQAINLIGEHPKSIPART MAALACIAQNDSSQQLLDEIVQ QEGLEYATEVVIARQFIARCYE SDPLVVTLOQYQDEDYGYGYRS ETYNEFDLRLRKHLSLAEESCW QRCADKLIAALPGINKVRRPFIA
25716	56084	A	25857	1	4440	MNRFDGAKQNVVGADAHHLA DTAVKRNQSLFQLRASGHPRLP AGGGKAVFHGRFAAKKIEAVA FYFRHLIALLVVQMHFKLVKG NVDVVFTAQLIDSTVQLIDSTTT VTQFTHIQTQLMRSVEWLTND GSCYRANETRQFARMLGLEPK NTAVRSPESNGIAESFVKTIKRD YISIMPKPDGLTAAKNLAEAFE HYNEWHPHKAGTLTNEQWQQ VTAELHDRMMETVFFALDDAE QLFAHHQPTPVTSVDLLGQG

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25717	56085	A	25858	1	3705	MEEYGGVDVRLYRIPDPMAFL RQQKNLHRIVVQPQYLGDLN NTLTWLWDNWKSRVMQR TFSSQSRQNVQTALPELQLGNA IHKPSRYVQNNQFSPLKKYPLVK QFRYPLWQAKPFEPQQGSRGL YLVEAMVGGYRATTGGVVS VALSKVSSKELLVWTAGKKQV NEPGSEIFGLTALRITAENQDCA SLTPETFLPRIHVIKGVNISTATV CRQCEDAPCANVCPNGAISRDK GFVHCEARTLHLFAKT
25718	56086	A	25859	123	923	TDSPYERGHLSNLLGPRDAN GIPVPM TVDESIASMKASLLKKI KRSAYVYRVDCGGCNGCEIEIF ATLSPLFDAERFGIKVVPSPRHA DILLFTGAVTRAMRSPALRAW QSAPDPKICIS\YGACGNSGGIF HDLYCVWGGTDKIVPVDVYIP GCPPTPAATLYGFAMALGLE QKIHARGPGELDEQPAEILHGD MVQPLRVKVDREARLAGYRY GRQVADDSFTQLQGEEQVAR WLEAENDPRLNEIVSHLNHVVE
25719	56087	A	25860	1337	1516	KLKSKSAKRHKFITPILAWRILI HYLQRVAV*WGSRL*LFITIP SRWRLPHNTGKG
25720	56088	A	25861	1	545	MARLAALKACETVYSMGVRS RRSPLEHLWQLKQVLNEGEL VLETVIDGDENTVLVPGDRYA QMRNVYFIPSALALKNLKKC GFVDIRIADVSR/ITTEEQRT WMVTESLADFLDPHDPGKTVE GYPAPKRARNRRAEDHRQRL RHRTRKKQTHGQRRRHRPEPA QRQPQTGTTD
25721	56089	A	25862	620	1117	
25722	56090	A	25863	1	1188	
25723	56091	A	25864	231	407	
25724	56092	A	25865	1	501	
25725	56093	B	25866	1	2373	
25726	56094	A	25867	1	2211	

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25727	56095	A	25868	2093	3589	GGINGKNFWFFLSPFTPCVGRCHSRVQLANSHLVVDVETPPSSAAVHLYATDADSIGNCGTDREFCPCNPIRRHAFCCERLQNGYHRSGYAFHLGHYGDRKVITNFYSLIAKNHLSHWLETLP AQIANWQREQQHGLFKQWSNAVEFLPEIKPYRLDLLHSVTAESEEP LSAGQIKRIETLMRNLMPWRKGPFSLYGVNIDTEWRSDWKWDRVLP HSDLTGR TILDVGC GSGYHMWRMIGAGAH LA VGIDPTQLFLCQFEAVRKLLGNDQRAHLLPL/GIEQLPALKAFDTVFSMGVLYHRRSPLEHLWQLKDQLVNEGELVLETLVIDGDENTVLVPGDRYAQMRNVYFIPSALALKNLK KCGFVDIRIADVSVTTTEEQRRT EWMVTESLADFLDPHDP AIFQIWPCTFMHAYHAFFDPVSHHRACQNLTTFVPDTHQIAIRNTKACSIFVSFALRTTHSCAISHSSLEDPPAILFKIADRMEQNLELLATAGNLG
25728	56096	A	25869	231	1785	DDEVHRYSELRTRTVPSYPPERSGEAKTAAQ RAGTAFRRGRGAGVPFNLQQRSDRWCS*RSQQNA*RLIGLHGQNSRSVPQLPMESASVA*RCGSII EKTTLSSRPFYWCPGCQHYADRF GA

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25729	56097	A	25870	1818	3311	RMAIQFRTLRLRWCWKISLVSS FTVVKAMTIRIVAMRQLLRQQ KQRTFVC*SS/TVDGVLSDGLIY MGNNGEELKAFNVRDGYGIRC ALTSDIEVAIITGRKAKLVEDR\
						LPHWGS LTCIRGSQTN*SPLAIC WKNWRLP/QENVAYVGDDLID WPVMEKVGLSVAVDDAHPLL GTEIDAYIENADYQYNKKRLRE IDRRVRYLTKCLENLKIVDYSP QQEGKVFFGAWVEIENDDGVT HRFRIVGYDEIFGRKDYISIDSP MARALLKKEVGDLAVVNTTPAG EASWYVNAIEYVKPRLNQTVR LLEHEMGQVWISGEISNFTQP ASGHWYFTLKDDTAQVRCAM FRNSNRRVTFRPQHGGQVLVR ANITLYEPRGDYQIIVESMQPA GEGLLQKKYEQLKAKLQAEGL FDQQYKKPLPSAHCVGIVTSK TGAALHDILHVLKRRDPSLPVII YPAAVQGDDAPGQIVRAIELAN QRNECDVLRPCVWCRRVRCRR
25730	56098	A	25871	1	3465	
25731	56099	A	25872	1	3126	
25732	56100	A	25873	1	1722	MSSLSQAASSVEKRTNARYWI VVMLFIVTSFNYGDRA TLSIAG SEMAKHIGLDPVGMGYVFSFAF SWAYVIGQIPGFVDIFSGFGIIV ALFTLRFLVGLAEAPSPGQSRI VGDWFP AQDRGTGVSIFTPFIL RKGDLRPIWVILMAGQLHAL MSTLEDTPFSNKAGMRLRRWI NAAVMRLNPLACLATRSNQVN WLLLTGNISVYPVGSSEPTRRR STPINSTPHFNKTILPINARYSPT LPSSDGTRWTTTRIDDKPTVGHK FARYWDVELREIPMRPG\QLFR DPKRMIEGCAENPLGV\PTFG VTYAGNYEFPQPLPDALNKFQ ADPGIDIDMHIDAASGGFLAPF VAPDIVWDFRLPRVKSISASGH KFG LAPLGCGWVIWRDEEALP QELVFNV DYLGGQIGTFAINFS RPAGQVIAQYYEFLRLGREGYT KSTQPARGSPANN CQAQPETP DRAVIHPTDGYESAATII VLSPP TASDSDPAHRDQRVVKTD A WS VVPGSTSEYPRRYKA EWFCQPF AVLPAILAWSAALWRYQPRAR RRKADYGCALNSLKNELTTP

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25733	56101	A	25874	1	2385	
25734	56102	A	25875	1	1767	
25735	56103	A	25876	1	2079	
25736	56104	A	25877	368	1261	TSPRARPAAGSGRGAFL/HLTE KGVNRFAYGLPESSGKRWAT EREYAFRQLVAEEKYRGVVYQ GLETAPENWQHAQNRLADWL QTLPPQTGHAVTDARARHILQV CEHLHIPVPEKLCVIGIDNEELT RYLSRVALSSVAQGARQMGYQ AAKLLHRLLDKEEMPLQRILVP PVRVIERRSTDYRSLTDPAVIQA MHIYRNHACKGIKVDQVLDAV GISRSNLEKRFKEEVGETIHAMI HAEKLEKARSLLISTTLSINEISQ MCGYPSLQYFYFVFKKAYDIT PKEVFAIVNSEVML
25737	56105	A	25878	1	868	MTSLKNSMKWDEERFGLEYDL DIYMIVAVDFFNMGAMENKGL NIFNSKYVLARTDTATDKDYLD IERVIGHEYFHNWTGNRVTCRD WFQLSLKEGLTVFRDQEFSSDL GSRAVNRINNVRTMRGLQFAE DASPMAPIRPDMVIEMNNFYT LTVYEKGAEVIGMTPPLFGQE NFQNVILTCALEDPTRKVVLKP LCRPPLSLCNRRKRVMCRIFTSS ASTLRLSRRCAVCWNSRITVSM RSSRRVTSVWLSAPTPIILSPAIF IVRWLLDSNPLIYYKAWSCW CSRK
25738	56106	A	25879	2097	2512	NTPVRPDVGT*TEEHGGAESGE *RNSRELRENDKA*LHQYHAQP DGKNLAEAFEHYNEWHPHISAL GYWRTVD/DMRGR*PQEPSLMI RAGRSSSPVQWQRIPLLIPGRKG DRMQKTVIPGSLFAGMPYAQPS IKTELAG

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25739	56107	A	25880	71	2613	QRKPTSSRKGLSARMMSGLTG TITTVSTGWCTTRGHNMKSRW SKVAIFTTR/SGRRVAKRVWRR ERDLTGWMSLSRKQPVTWYG WDGDRLLTIQNDRSRIQTIYQP GSFTPLIRVETATAVRRRRRWQ WGIPAGTVQMLDRLESEILADR VSEESRRWLASCGLTVEQMKK TSIHASIVRHKLLTAEQALKLLG EMFVYHMPFNALGMELERYE KEFAQLAFKNQPMVGNWAQ SILHGGVIASALDVAAGLVCVG STLTRHETISEDELQRQLSRMGT IDLRVDYL RPGRGERFTATSSLL RAGNKVAVARVELHNEEQLYI ASATATYMSKSMFLAVATILIS KSSLSRLRRPSTIVCGIPISSISAN ITPGRSLRSSSSTSKTLCTQFAV QFLSKLLY AEGFVHVHRQNRH LERRDSVRPYDASFVVLLNRR SYHTRYPD TVATHRQDLVTAIF TLYGGFQCFGVLTQLEDVTNF DTTFDQOPTLAIRAWIASHHVT DICNFRGSDIAIPVDAEVVFTID VSTSSEITHRRNVDLFPDQLTVT RSQTFTAYERLSTALTVAQVCG VQRLCNYY SARLTPLPGPDSTR ESNHRLAQITQYARQLASSPSII DNRSRQHLNDVGLTAWDCVIIS QIIGFIGFQARTIATFQAYLGHP VRWLPGLEIQNYADASLFADES LRWRSSYEVEKLPEEHTKSSTA
25740	56108	A	25881	71	3478	CCLSSHPSTTATALRSLSPVRK WPKISALIPWEWAMCSLLSHGL MLSGRSLVAWCWTVLVQNAS TSGRSLSGRCLPCKASSISLVD SALSFLFLTLRFLVGLAEAPSPF GNSRIVAAWFPARKGTGINEIS PLANTALEGLGGSGDALCTQC EAEGFRHITYYLD RPDVLARFT TKIIADKIKYPFLLSNGNRVAQG ELENGRHWVQWQDPFPKPCYL FALVAGDFDVL RDTFTTRSGRE VALELYVDRGN

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25741	56109	A	25882	90	629	PGDWGRRQLIGS*KTPGSVFKK GKSSTPN\DPFLKDKTQDRSGL ATFTMDGQIRLFYQDISGNHS GK\QSLPPAQVIVSNSVDHLKIT GVEDHKPIFAGAGKPYQNLRF IDEGNYTSGDNHTLRDPHYVED KAHKYLV/FEANTGTENGYQG EESLFNKAYYGGGTNFFRGSSR VDLQAC
25742	56110	A	25883	1	3066	
25743	56111	A	25884	104	547	LFPRLLSCLTTPPHCSFSICFVIC SRTLILKGSSLMYVFCLPNTAIV MALSPRGWRSKFGMPVDSKGP PWLFKFLKNGLNLLHSVGTRD LSRLSTILSPLYNTVAPGAN*CR ELKLVLDDADDVLSTEVRVITS SASNITPAFFCS
25744	56112	A	25885	3	4288	
25745	56113	A	25886	2	2222	DFADFGTTIKQDFRLLGQTSVD RLLQLSQGQAVKGNQLLPVSLP QHTIPDVFIWMLSNRRRVAYA RIASKDLLYSPVAGQMGKHCG KIKTHFLKIPKQQQNEKYQVPQ FDQSTIKNIESAKGLDVWNSWP LQNADGTVAEYNGYHVVFALA GSPKDADDTSIYMFYQKDFRLL GQTSVDRLLQLSQGQAVKGNQ LLPVSLVKRKTTLAPNTQTASP RALADSLMSWHDRFPDWKAG RILPISEPPSNRIFACWGKPAWT ACCNSLRARR*RAISCCPSHW* KEKPPWRPIRKPPLPARWPIH*C SWHDRFPDWKAGRKGSDAHRF GSWKFQLQRVSG\SATFTWGG KIR\LYSADYSGNHYGKQSLPS GQVNGSNSDDTLKINGVEDHK TILDGDGKTYQNVQQFIDEGNY TSGDNHTLRDPHYVEDKGHKY LVFEANTGTENGYQGEESLFNK AAYGGGTNFFRKESQKLQQSA KKRDAELANGALGHELNNDYT LKKVMKPLITSNTIRKSDGTLQ EHDGICEIHVAKYAEIFGLTSAE ASKDIRQALKSFAGKEVVFYRP EEDAGDEKGYESFPWFIKRAHS PSRGLYSVHINPYLIPFFIGLQNR FTQFRLSETKEITNPYAMRLYES LCQYRKPDGSGIVSLKIDWIIR YQLPQSYQRMPDFRRRFLQVC VNEINSRTPMRLSYRMGVRGK
25746	56114	B	25887	1	2640	

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25747	56115	A	25888	1291	1629	
25748	56116	A	25889	1187	2925	NSLQRSHPNAAANS/WHNKLWR SHSDSDLSDHHEPICKPGLELN KKDITTSADQIAEVKTMESHPI PPVFVEHMPVQDANQKGLCTK ERMICLEFTSREFHAGQIEDELN LNDINGCSSGSTLEDPOFNDDSP EARKITRRWRIGEADLVGVSS QAIRDAEKAGRLPHPDMEIRGR VEQRVGYTIEQINHMRDVFGR LRRRAEDVFPVIGVAAHKGGV YKTSVSVHLAQLDLALKGLRVL LVEGNDPQGTASMYHGWVPD LHIHAEDTLLPFYLGEKDDVTY AIKPTCWPGLDIIPSCALHRIET ELMGKFDEGKLPTDPLMLRL AIETVAHDYDVIVIDSAPNLEDP RVGVMARGNAITLPCGRDVK FTLEVLRGDSVEKTSRVWSGNE RDQELLTEDALDDLIPSFLTGGQ QTPAFGRRVSGVIEIADGSRRR KAAALTESDYRVLVGELDDEQ MAALSRLGNDYRPTSAYERGQ RYASRLQNEFAGNISALADAEN ISRKIITRCINTAKLPKSVVALFS HPGELSARSGDALQKAFTDKEE LLKQQASNLHEQKKAGVIFEAE EVITLLTSVL
25749	56117	B	25890	1	1954	
25750	56118	A	25891	1	454	MERRNRRTGRTEKARIWEVTD RTVRTWIGEAVAAAAADGVTF SVPVTPHTFRHSYAMHMLYAG IPLKVLQSLMGHKSISSTEVTYK VFALDVAARHRAIRVPRQQGD YRTRIWKFEGLSNVLVIQLNK LIICVMCLVRDCDVLKTYFHL
25751	56119	A	25892	10	144	FLFIGKGFLLKGIT*PGQIVQRG*E KKSNT*FRQFGGVDTAGNNLT

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25752	56120	A	25893	888	892	TVDLDACTKGVLTFTTALLAG GANQAFAKENTKKAYKETYG VSHITRHDMLQIFKQQQNEKYQ V PQFDQSTIKNIESAKGLDVWDS WPLQNADGTVAEYNGYHVVF ALAGSPKDADDTSIYMFYQKV GDNSIDSWKNAGR VFKDSDKF DANDPILKDQTQEWSGSATFTS DGKIRLFYTDYSGKHYGKQSLT TAQVNVSKSDDTLKINGVEDH KTIFDGDGKTYQNVQQFIDEGN YTSGDNHTLRDPHYV/EDKGH KYL VFEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIIELNND YTLKKVMKPLITSNTVTDEIER ANVFKMNGKWYLFTDSRGSK MTIDDLWKFELEND DLEYLVE ENSKQKTIQDVIWLFLTAYTHI RGATQAFAKENNQKAYKETYG VSHITRHDMLQIPKQQQNEKYQ VPQFDQSTIKNIESAKGLDVWD SWPLQNADGTVAEYNGYHVVF ALAGSPKDADDTSIYMFYQKV GDNSIDSWKNAGR VFKDSDKF DANDPILKDQTQEWSGSATFTS DGKIRLFYTDYSGKHYGKQSLT TAQVNVSKSDDTLKINGVEDH KTIFDGDGKTYQNVQQFIDEGN YTPGDNHTLRDPHYVKT KAMR

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25753	56121	A	25894	1424	3807	HPLWKWLEGDMNMNIKKIVK QATVLTFTTA/LLAGGATQAF KENNQKAYKETYGVSHTRHD MLQIPKQQQNEKYQVPQFDQS TIKNIESAKGLDVWDSWPLQN ADGTVAEYNGYHVVFALAGSP KDADDTSIYMFYQKVGDNSIDS WKNAGRVPKDSKDFDANDPIL KDQTQEWSGSATFTSDGKIRLF YTDYSGKHYGKQSLTTAQVNV SKSDDTLKINGVEDHKTIFDGD GKTYQNVQQFIDEGNYTGDPL EAETAVINHKKRKNSPRIVQSN DLTEAAYSLSRDQKRMLYLFV DQIRKSDGTLQEHDGICEIHVA KYAEIFGLTSAEASKDIRQALKS FAGKEVVFYRPEEDAGDEKGY ESFPWFIKRAHSPSRGLYSVHIN PYLIPFFIGLQNRFTQFRLSETKE ITNPYAMRLYESLCQYRKPDGS GIVSLKIDWIERYQLPQSYQRT PDFRRRFLQVCVNEINGAVIGIP CVSIRKPDGSGIVSIKIAWIERY QPPQSYQRMPDFRRRFLQSRPA CMHDWLCAEALAWSIQTASYL VTMQVNLTSLSSDTRDLSVVS NSGWVSSGSLVRFTIKTSSGEI KRTVPRILPDPDDPRSAIAEAPS EMPGHEVPVEEHFPEAGTNSGS PQGARKGDESMTKASDSSSPSC SSGPRVPKGAAPGSQTGKKQQS TALQASTLAPANLLPKAVHLA
25754	56122	A	25895	3	2356	
25755	56123	A	25896	1	2610	
25756	56124	A	25897	1	2496	
25757	56125	B	25898	1	3198	
25758	56126	A	25899	1	5274	
25759	56127	A	25900	1	585	
25760	56128	A	25901	1	2469	
25761	56129	A	25902	1	1914	
25762	56130	A	25903	1	2259	
25763	56131	A	25904	1367	1959	KLVTLHMDLSWR\NSGYQSQE T*K*PANRPVKRPH*GGI*\FSRD QKRMLYLFVDQIRKSDGTLQE HDGICEIHVAKYAEIFGLTSAEA SKDIRQALKSF/DGEGSIYSR*A HGAA*PSHRKDRESADLGSDG QNDKGH\QYLVFEANTGTENG YQGEESLFNKAYYGGGTNFFR KESHKLQQSAKKLDAELSNGA LGFIE

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25764	56132	A	25905	1	2418	
25765	56133	A	25906	3	1918	
25766	56134	A	25907	1242	1463	
25767	56135	A	25908	1907	5097	TSKKIVKQAPVLTFTTA/LLAGG AIQAFAKENNHKAYKETYGVS HITRHDMLQIPKQQQNEKYQVP QFDQSTIKNIESAKGLDVWDSW PLQNADGTVAEYNGYHVVFAL AGSPKDADDTSIYMFYQKVG NSIDSWKNAGR VFKDS DKFDA NDPILKDQTQEWSGSATFTSDG KIRLFYTDYSGKH YGKQSLTTA QVNVSKSDDTLKINGVEDHKTI FDGDGKTYQNVQQFIDEGNEGI LPISEPPIKQDFRLLG
25768	56136	A	25909	610	2303	SLPNLDNAAICSSSSSPTRTR*SL SEGATQAFAKEKYPHKHTKKR SGVFHITRHDMLQIPKQQQNEK YQVPQFDQSTIKNIESAKALDV WDSWPLQNADGTVAEYNGYH VVFALAGSPKDADDTSIYMFY QKVGDN SIDSWKNAGR VFKDS DKFDANDPILKDQTQEWSGSA TFTSDGKIRLFYTDYSGKH YGK QSLTTAQVNVSKSDDTLKINGV EDHKTIFDGDGKTYQNVQQFID EGNYTSGDNHTLRDPHYVEDK GHKYRGPLES PSTHQA EFNPTS CVSSLGTLQGFPAPAWLAL AHP VHPLKHKSGGSNRLSAAIWGIK RKPARVCPGTGIHASSQIQGEW RTECAVGP KAKAKATAGWRR GNNQHISSTYDINRADTQVRR VNNYDIIVMSNSFNQSEHQTY ESIVIDSAPNLGIGTINVCAAD VLIVPTPAELFDYTSALQFFDM LRDLLKNVDLKGFE PDVRILLT KYSNSNGSQSPWMEEQIRDAW GSMVLKNVVRETDEVGKGQIR MRTVFEQAIDQRSSTGAWRNA LSIWEPVCNEIFDRLIKPRWEIR
25769	56137	A	25910	1	2103	

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25770	56138	A	25911	1	2124	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKANKETY GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFFKR GAIFRVHKHAVNPMSPKCRRPG GRQAYPLVNWEDRNGRSQKTV HTEGDMNMNIKKIVKQATVLT FTTALLAGGATQAFAKENNQK AYKET/YPKQQQNEKYQVPQF DQSTIKNIESAKG\LDVWDSWP LQNADGTVAEYNGYHVVSALA GSPKDADDTSIYMFYQKVGDN SIDSWKNAGR VFKDSKFDAN DPILKDQTQEWSGSATFTSDGR RSLESTTTAARPIWRKDVGGDQ TQEWSGSAPFTSDGKIRLFYTD YSGKHYGKQSLTTAQVNVSKS DDTLKINGVEDHKTIFDGDGKT YQNVQQFIDEGNYTSGDNHTL RDPHYVEDKGHKYLVFEANTG TENGYQGEESLFNKAYYGGGT NFFRKESQKLQQSACKRDAEL ANGALGIIELNNDYTLKKVMKP LITSNTVTDEIERANVFKMNGK WYLF TDSRGSKMTIDGINSNDI YMLGYVSNSLTGPYKPLNTTG LVLQMGLDPNDVTWASLEPHE SFQWVRGLASSGVKLQTSVVL QLIKAMWTQRVSSSKVYCKEQ MNNASTMSKRTSAGCHCWQG
25771	56139	A	25912	1	3987	
25772	56140	A	25913	1	2235	

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25773	56141	A	25914	1	1950	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKETY GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDNIDSWSKNAGRVFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTGSLNSSKTEKY QVPHIDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDNIDSWSKNAGRVFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGKHGKQS LTTAQVNVSKSDDTLKINGVED HKTIFDGDGKTYQNVQQFIDEG NYTSGDNHTLRDPHYVEDKGH KYL/VFEANTGTEHPQPQ\ERP RTQSFTSAFAERRECIPNVPADT KLSKIKTLRLATSYIAYLMDLL AKDDQNGEAEAFKAEIKKTDV KEEKRRKKELASKCLDLEQLGAS VEPTGNLRTKIT\KEKPRHTGPPE VVVPGCCPHRSRAYKSDKYAH TLTVTASQHAPPPHMEGFEL FHLPDLCSPSQDAQTTGRTQMK PDHSPRPSHRVPQAKGNVIVIT SYMTRNGFFEDKKATFAPSFLM NIKGNKTSVVKNSILEQQQLTV
25774	56142	A	25915	1	2448	
25775	56143	A	25916	1312	1974	
25776	56144	A	25917	2	1778	
25777	56145	A	25918	1366	2673	
25778	56146	B	25919	1	1938	
25779	56147	B	25920	1	2262	
25780	56148	A	25921	1	2100	
25781	56149	B	25922	7145	7154	
25782	56150	A	25923	2085	11232	VNSEGSEPADRK KPVHTEAM NMTIKKIVKQATVLTLTALLA EGATQAFAKENNQKAYKETYG VSHITRHDMLQIPKQQQNEKYQ VPQFDQSTIKNIESAKGLDVWD SWPLQNADGTVAEYNGYHVVF ALAGSPKDADDTSIYMFYQKV GDNSIDSWSKNAGRVFKDSDKF DANDPILKDQTQEWSGSATFTS DGKIRLFYTDYSGKHGKQSLT TAQVNVSKSDDTLK\INGVEDH KPILDGGGKTYQNVQQFI
25783	56151	A	25924	153	293	

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25784	56152	A	25925	420	687	
25785	56153	A	25926	242	491	WLHVQPLHDEHHCWI*YPADT DGV RPAFQRSPALSPEHGCVPY TPARQGSVRSKGPCT SALLYVE CSIAAPDRKHSCHKSDQS
25786	56154	A	25927	2	113	
25787	56155	A	25928	779	862	NSTLPRCASTTFARY*AIPIKVFS ILP
25788	56156	A	25929	282	443	FSAGFLNLR YAQKFPSSYPPV** CYRPIYYPASDPCRNRLLYPAD VPYQALLD
25789	56157	A	25930	3	89	
25790	56158	A	25931	614	823	
25791	56159	A	25932	1229	1427	
25792	56160	A	25933	1965	2682	FAVPCRTSFGSIETVSHPGRDT* SA*AYRVQVD SHRPRLAHNVQ HRT*RGEVLLAGVPRHVAEREI ATLAGSFSLEHQNIHNLPRDQG PGNTVSLEVESENITERFFVVG KRVSAEVVAAQLVKEVKRYLA STAAVGEYLADQLVLPALAG AGEFTVAHPSCHLLTNIAVVER FLPVRFSLIETDGVTRQLLGVS YRILAMGHAEFLIQIADMRNDGG WRDFQFSGNLVMDENRSAQT YIKLVKSRLGTTKR
25793	56161	A	25934	261	563	RHSRGRSALRQISPEC*IHVCSP PVQQLHPGYGNAIPLSYGHRNQ PDESDDAPVPPGWCQRYNLHQ KSTAHCGGYTIHADLVKTRCW LAPHRLPPGPGR
25794	56162	B	25935	1	1329	

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25795	56163	A	25936	761	3224	RGGAVTAKAPPDISAISALTAV KHGNCSSLTPLLNPPGSDVIVC AEMDEQWGYVGAKSRQRWLF YAYDSLRTVVAHVFGERTMA TLGRLMSLLSPFDVVIWMTDG WPLYESRLKGLHSNEGDAVL LEIEQEVSSVDSSFNSTLGPTFN TRTIQNAVLVKTGETVVLGGLL DDFSKEQVSKVPLLDIPLVGQ LFRYTSTERAKRNLMVFIRPTII RDDDVRSLSKEKYTRYRQEQ QQRIDGKSKALVGSEDL PVLDE NTFNHAPAPSSRWALAQRIGV SRVDMQQHVRRPPVNLSPKRE NVIAGYLSNSVARKQRHIQTGT VFHQLMNLLRDGINIIFMNFKY QFIVYLHFLSPKWVMYNRKC VNGMLLIASVPATWMLSRYS SHRWIAKEIPMGKTQPLPILLG /GRRIGLALA\WHFIIQKQPVIV SYRTHYPADGLINAGAQCIIQA DFSTTDGVMFADELLKSTHG LRAILHHASAWMAEKPGAPLA DVLACMMQIHVNTPYLLNHAL ERLLRGHGHAAASDIIHFTDYVV ERGSDKHIA YAASKAALDNMT RSFARKLAPEVKRQTATRAGH RGINQLSRYRRLARQNQRR MVELRSLRFMYRHRPRSFVLW QATRLHRLNIAVRHRKPDARPL PAIQRNTDIAIKQPKRAVITGNH HRSTFVPTRLAQTGSEIRRHAM
25796	56164	A	25937	3	543	
25797	56165	A	25938	209	343	LSPPMSSFLATVFRSIAWLLTAK SIRYRTT*RWIRCAAVWLTMD
25798	56166	A	25939	547	640	
25799	56167	A	25940	174	583	
25800	56168	A	25941	2001	2610	DVLVRKHNGHWTVELYSDSIP RLQINQHYASMCNNARNDGDS QFIRSNLQDAKWLKLSLESND TLLRVSRCIVEQQQAFQEKGEE YMKPMVLADIAQAVEMHESTI SRVTTQKYLHSPRGIFELKYFFS SHVNTGEGGEASSTAIRALVKK LIAAENPAKPLSDSKLTSLSEQ GIMVARRTVAKYRESLSIPPSN QRKQLV
25801	56169	A	25942	329	484	TRQLSLLVRMTL*AFVRKRSS LA*KPLWSWLSSVKSQPGWKL MLARWKSF

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25802	56170	A	25943	1	1785	
25803	56171	A	25944	2493	2696	
25804	56172	A	25945	1	1861	
25805	56173	A	25946	456	700	
25806	56174	A	25947	1	2413	MPVIKVRENEPFDVALRRFKRS CEKAGVLAEVRRREFYEKPTTE RSRYDLVDRNNNIVLEYRKKEL VRLTLTDPVTGKSGEVKSLVSS LQTKYALKGYNVEATALEAAG GKVVTGKDILVRKPTLDLPLE VRRKMWFKPFMQSYLVVFIGY LTMYLIRKNFNIAQNDMISTYG LSMTQLGMIGLGFSTYGVGKT LVSYADGKNTKQFLPFMLILS AICMLGFSASMGSGSVSLFLMI AFYALSGFFQ\STGGSCSYSTIT KWTPRRKRGTF LGFWNISHNL GGAGAAGVALFGANYLFDGHI VIGMFIFPSIILIVGFIGLRYGS DSPESYGLGKAEELFGEEISEID KETESTDMTKWQIFVEYVLKN KVIWLLCFANIFLYVVRIGIDQ WSTVYAFQELKLSKAVAIQGFT LFEAGALVGNCSYAQGMWG KTAETSDLQDLLIAALQGLSAW AVKAREYGIINHVDVDFAPRAF FSTLTNVNFDSPRIVGYAREAIA LREALKAQCLAVDANARVDNP MADLQLVSDDLQELQRQAAEF TPNKDKAAIGENILGLRLICLY GLKVFNQREDQLDSCYHGNRQ LRGSLRLLFLAFIRQLRDLIITA HRVIRVNRQHAALGVKHCRI.P GITGNRIQRQATQYRDRRG TGQ NQCMRGDMQQLFADIANVAN TFAQIIAGRGRKFGANLLHIAD
25807	56175	B	25948	1	3738	
25808	56176	A	25949	1518	2124	DCFCGSRHDKLPSAHQCSAKPG SDRFWRSHADAAYAHGCGIOP VLCASRSNGCLQKPKCHTIVSG RCPLQQIGS\SVFPSGDAANVAS FSCACDNAGSAQHRTLLLGKQ FFNCRNAFHFNRSRQTALKSG ISWVTFQLILKQPRPVIMTKM AIGFRKV*SQRNIIRHLLVYIFKF ADGGCFVVIFLCLQRFIETGINN KMG
25809	56177	C	25950	1	747	
25810	56178	A	25951	168	332	CAWRAVCAAW/PTGASC/CNN DRFVFQILRSFEHDNSEDKPGP GMPPHGWRTQFWGG

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25811	56179	A	25952	1	2706	
25812	56180	A	25953	1	1062	
25813	56181	A	25954	1	855	
25814	56182	C	25955	1	2412	
25815	56183	A	25956	279	713	RCDAAGAVLHSAAGLLRHCGY WQRGKPDWRSPRGNYADRIC RRWFCAGGVGDRQYELCQLLA YTVSATRRGTGYCLYRDSRGR TGLPVV*HLSGAGLYGRCRFAG VRWCVRHYRRTATSGIPAGDY GGRVRGRNAFCHPAVAP
25816	56184	A	25957	1	769	MDFAETELEFIKFWGDIITNKLN EALAAQGDNVVINLASDEYFKS VKPKKLNAEIIKPVFLDEKNGK FKIISFYAKKARGLMSRFIIENR LTKPEQLTGFNSEGYFFDESSS NGELVFKRYEQRAECRIVTRHL SFGSDVCLDHDRRDDHEELSY GGAAVA AVLIEPNKLA FDGS GYLAWEGLICMQEIGKC/YRRT SGDCA*VAGRAQTG*VSGWAL SRGKNQPGVGCEAGARRHARE ARIGDERHRLAPRDM
25817	56185	B	25958	1	2472	
25818	56186	A	25959	4300	4492	DCGGVRSQRPDQR*DWNR*GA GGESDS*SLATGGQAAEGVAV WRY SARWR*PLFAGRCARAGG D
25819	56187	B	25960	49	3000	
25820	56188	A	25961	266	812	LLRWRPGALALGHKL VAGEIR QQRMDA WRAACLQNPQGILCC ARGGQRSHIVQSWLHAAGIDY PLVEGGYKALRQTAIQATIELA QKPIVLIGGCTGSGKTLLVQQQ ANG/VDLEGLARHRGSAFGRTE DELGKLAQTSTSSPAHWRETSK CGGFLCPIFLT NMRTPLPVCAT VLPYLAIATV
25821	56189	A	25962	761	874	
25822	56190	A	25963	2	304	MAAYGSGIFAQTYIEAFGISTIQ PASCSPVNQYITAAFVLFNGVA HALLIALQRRNRRLQRRKGA VIVIAFN TSQGA/VPAFCCQP*S RYASPPCCSFSTA
25823	56191	A	25964	109	777	
25824	56192	A	25965	5	187	ITHKKPPPSWRSALLPAAGVFS RRYMPALCE*HWAS*RMRAEA TETFS DCTMPIIGMMMS
25825	56193	A	25966	1	711	
25826	56194	A	25967	757	1026	
25827	56195	A	25968	1	750	

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25828	56196	A	25969	1	1065	MKVLEKRNNASSEPEEKNEIRA AREHAGFTLQELVCLGASGRK VQGEAANAEEEEVAAGELDNIA KITNEGSYTEQQIFNEGYMWLS TLMKIKENKISCSWATQSHFQG SIDAGELEHLTPERVWKETESA LTTRNPQVFFQVLRDCGALRVL FPEIDALFGVPAPAKWHPEIDT GIHTLMTLSMAAMLSPQVDVR FATLCHDLGKGLTPPELWPRHH GHGPAGVKLVEQLCQRLRVPN EIRDLARLVAEFHDLIHTFPMML NPKTIVKLFDSIDAWRKQPQVE QLALTSEADVRGRTGFESADYP QGRWLREAWVAQSVPTKAV VEAGFKGVEIREELTRRRIAAG LRG*VSRSHPLPNAEPKNH/AS NYLIPSMPGVNRSVSSNWR*PA RLTCAAE/HGFESADYPQGRWL REAWVAQSVPTKAVVEAGFK GVEIREELTRRRIAAGLRGMPT
25829	56197	A	25970	2373	2597	SADDKADSVA*YLRLASA*TNS CRPYRRPSAPVCRRAPAI*G*TP QNYGPPSSCPAGGFWRYPVDPP RFSGFVH
25830	56198	A	25971	2616	2777	TSVRKRFFSTLSGKPVAKAGRKR PPPCR*TPTANGHPKPCRPPVW CHPAPVARP
25831	56199	B	25972	1	1449	
25832	56200	A	25973	1076	1477	CAVRRSITWCKLSSKTPVRPLR PSTYRDCLTVSIALTPPASEKVK RRPVPAVKSAMKVPPGAAQSR KRVWLVSFPPTCEFLASNSRGK KISVLSALSPPRWTS*PKARWA ARRLTNLVVRH*TATSVLMK KK
25833	56201	A	25974	1	3552	
25834	56202	A	25975	196	493	KRCRFADRPDPGRQGTAAATT FGGMSFVTILPAPIELSPMVTP GLITT*LPIQTLLPIVIGKEYISPF FLNSWCTGCPVTERVTLGAIST LSPIVTV

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25835	56203	A	25976	1	3917	MTDKHQHRYVAAPGPFVGD KCQVAGDPLMLRRALSNNLSN ALRYTPTGETIVVRCQTVDDL.V QVIVENPGTPIAPEHLPRLFDRF YRVDPSPRQRKGEKSGIGLAIVK SIVVAHKGTVAVTSDARGTSGL DDFFIDVVYVWRRIKRLSVYR RIPRMSYRELYKPDEQPLAIV PAWNERASSAIWRAGGTTLDL KFLFVGLPGPILGSKVPFEFL VACPPSGGPVGPWRPGRGA AAACASPAAILAPT
25836	56204	A	25977	3	292	GDMQRLNSLFC/SVAYSVLEQP DEDEGRDSINIVNPSGRPIVSSG ATPAVREYAAHGFHLYGLRQR VGEVRVDLQREQIYASKPCGST IGISLVVR
25837	56205	A	25978	2	181	SARRLR/RSKHFRLNRRYSIIA HSMGLGDMQRLNSLFC/SVAYS VLEQPDEDEGRDSINIVN
25838	56206	A	25979	1	2781	
25839	56207	A	25980	1	2554	
25840	56208	A	25981	635	741	
25841	56209	A	25982	91	501	LWIRLAKRSGKAIKERRDFIFRL CTHRVRQGTALLRLFQHSGGN RLMKLDNQHLRLRISNHRAFHF RHRTTVKQSQTFRYPWL.YRV RHWGQKPKTDNFHGLLARIFG NSRSKTWGENR*EHSVLEQPDE DEGRDEY
25842	56210	A	25983	2153	3062	APVMPPERLPVIAVRQYPTANC CSDCLAAASRFFLASVAAPQ DADTRRSRVAVGRRKTRNSA NQPRPRRDWRELQMDRLARV AQARASFAARETLRIGDAMEQ MMEGLNKVMHGEPRQEKELR KLADDINVLYTAIKLYLARM EELAEESRRWAEIEMSLNLEQ ASDIVERMG\GELVDKSWAAR RAFSLDGLKELDALYEQLLSNL KLAMSVFFSGDVTSAARRRSK HRFRILNRRYSHAHVDRLHQQ NVQSIETSSLHLGLLGDMQRLN SLFCSVAYSVLEQPDEDEGRDE
25843	56211	A	25984	135	308	KLSRLGLIFPRPSLFPRPTSPST PAPAS*PAPS*VSPSPRTATPSCP TSYSSFPCH

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25844	56212	A	25985	3	663	ARGKKPPRRGKEDFWDSL IATRVSVNPIKFPVEA *PFLKPLQQV S\GPLGGRLPLPIPGNLLLQVAD GTLSLTGTDLEMEMVARVALV QPHEPGATTVPARKFFDICRGL PEGAEIAVQLEGERMLVRSGRS RFSLSLTPAADFPNLDDWQSEV EFTLPQATMKRLIEATQFSMAH QDVRYYLNGMLFETEGEELRT VATDGHRLAVCSMPIGQSLPSH
25845	56213	A	25986	1	1077	
25846	56214	A	25987	1	1323	MHSGTFNPQDFGWQGLTLTPA AAIHIRELEILDEYGIPNAWQGE TNFWGSTAVSIDRLAAYKDVD VLCFDHDNSKDMDALMATPL WQAMPFVRAGRFRVPAVWF YGATLSAMHFVRVLDNAIGVIV ATALTWMNFSQALPRSQWAQ AA WSPDIDVIEQMIFHYSLLPRL AISLLVGAGLGLDVRYLNGM LFETEGEELRTVATDGHRLAVC SMPIGQSLPSHSVIVPRKGVIEL MRMLDGGDNPLRVQIGSNNIR AHVGDFIFTSKLV DGRFPDYRR VLPKNPDKHLEAGCDLLKQAF ARAA ILSNEKFRGVRLYVSENQ LKITANNPEQEEAEI LDVTYSG AEMEIGFNVS YVLDVLNALKC ENVRMMLTDSVSSVQIEDAAS QSAAYVVM PMRLEGSPPLGNP EFQKISSPCALYIALCSKARHHT GRYLGLCGL
25847	56215	A	25988	211	475	GAIGVFTAGKLTRASVYHQAR RFMQRET VWLVEDEQGIADTL VYMLQQEGFAVEVFERGLPVL DKARKQVPDVMILDVGLPDISG FELCRQLLALHPALPVLFTAR SEEVDRL LGLEIGADDYVAKPF SPREVCARVRTLLRRVKKFSTP SPVIRIGHFELNEPAAQISWFD T PLALTRYEFIVLKTLLKSPGRV WSRQQLMDSVWEDAQDTTSH VVAFATILQGISRD LRRRILPYCI RCRRERCTGTALWQ

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25848	56216	A	25989	1661	2499	QMAHDEQWLTP\RLQTAATLC NQNA PRDGSPLWLGVDLGTCD VVS MVVDRDGGQPVAVCLDWA DVVRD GIVWDFFGAVTIVRRHF DTLEQQFGRRFSHAATSFPPGT DPRISINVLESAGLEVSHVLDEP TAVADLLQLDNAGVVDIGGGT TGIAIVKKGKVTYSADEATGGH HIFLTFAGNRRISLEEAEQYKRG HGEEIWPAVKPVYEKMADIVA RHIEGQGITDLWLAGGSCMQP GVAELFRKQFPALQVHLPQHSL FMTPLAIASSGREKAEGLYAK
25849	56217	A	25990	915	1518	PSGHAPDLNGAPATAHQPGGR YPAPRSVRRATDNGYPAGDPLE WRSTAQVFVSSRRRVSLPNDRK TVLTRCWSAAH*FALPAPLCRD RTGERKNRRFHTPTRCGRGFCP APAASRRCAGRRRGDASGRAY RRPAPSHCPVQ*RGHRKSTTTSS TSRRRPGQSARPYSGPEYRE*Y CSAQRFFHNDGSRPPVVRQAGR AQFP
25850	56218	A	25991	1	1254	
25851	56219	A	25992	675	835	VRWCWIFPSQ*TLFQKRAGHA APSADVLHESCQHFLNLLNRLG RHYDFGEGEP

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25852	56220	A	25993	1	2255	MRESPTRDDSKNTVNTTIRIRIH NSYTEQLQIVTNSYCTKQWHV HHTAKPYAHIQRPATPDQLTK MQEEEEVEPEPEMEAEEVEPEPN PEEAETESSESMNQRDVRGTVRI VLKTFNNCRDTVFAFEVNNT VSLLVATTDMTSGDTAIVVTTT GFAVFFQQRSKSAANEVQILAF FQGDVSFFPVATTTDTLSVTFN FPFNYQGVNDFDFDFKQFLHSS FDFCFGRVFSNFEYLHGARAHA CIPPSACIGEVLETSSFDIRVSVY RSSCVCVRLRESSTGDRYFGGL SLQMMRKATGLTDITSPTGNT DDQRWHPEHGLTQRMQKEQE LVKEPEGAARDGDGEAEAWGE VKAKSSGCVGTRASSHLFRCNV CELHFKESSELLQHPCTPSGERP FRCGECQKAFKRPSG\LRQHER THSAERPFCDLCPMGFKQQY ALMRHRRTHKTEEPFKCGLCE KGFGQPSHLLYHQHVHTLETFL KCPVCQKGFQSAELLRHKCLP GAAERPFCPCVNKAYKRASA LQKHQLAHCAAAEKPLRCTLC ERRFFSSSEFVQHRCDPAREKPL KCPDCEKRFKYASDLQRHRRV HTGEKPYKCPNCDKA\FKQREH LNKHQGVHAREQQFKCVWCG ERFLDVALLQEHSQAHSAAAA AAEGAYQQTLHHPRRQQQQY WQLLCARNNVKLCMHILFSPH
25853	56221	A	25994	98	596	YSGIIMAQSKLYPVVMAGGSGS RLWPLSRVLYPKQFLCLKGDLT MLQTTICRLNGVECESPVVICN EQPRFIVAHQMRQLNELSENIL EPAGRTTAPTIAAALANRHS PESAPLMLVLATDHVIANEDAV RAPVK\NAIPYPKKGKLVTFGIG LDGRVPRYNM
25854	56222	A	25995	3	554	
25855	56223	A	25996	1	222	

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25856	56224	A	25997	1	1043	MKVKVLSLLVPALLVAGAANA AEVYNKDGNKLDLYGKVDGL HYFSDNKDVGDDQTYMRLGFK GETQVTDQLTGYGQWEYQIQG NSAENENNSWTRVAFASLKFK DVGSFDYGRNYGVVYDVTSW TDVLPEFGGDTYGSDNFMQQR GNGFATYRDTDFGLVPTRLHP ARVCCALRELKDAGADRIWYI ADAFRAGLSVDGVFNLTNIDR WFLHINRAKDKNHMIISIDAEK AFDKIQPFMLKTLNKLIGDGT YFRIIRAIYDKPTANIILNGQKLE AFPLKTGTRQGCPSPLLFNIVL EVLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLISDFSKVSGYKINVQKSQT FLYTNNRQTESQIMSELPFTIAS RRIKYLGIQ*IRY*WDFQNNK SYL*QTHSQYHTEWAKTGSIPF ENWHKTGMPSLTAPIQHSVGSS GQGNQAGEGNGKYSIRKRGSQI VPVCRRHDCLSRKPHRLSPKSP
25857	56225	A	25998	1	3339	
25858	56226	A	25999	1440	1880	AAQHASVYLYQNRIRGAVPPV RFFHADQRTTRRDGADGKQRHA TETLCRIAEEKISSSREQDWLHCD ERQSLYEW*PW*PSPHSGRSQK EKRQT*TAILDAYCADCFRCGR GVFARRERTKRDRPGNAGTG GDCPCWLRQYECVRL
25859	56227	A	26000	1	2277	
25860	56228	A	26001	1	1845	
25861	56229	A	26002	56	113	QQQPNPTRDQLQLAILHNIRGIR KIYG*IQSATREAG*GHSPQY
25862	56230	C	26003	1	2317	
25863	56231	A	26004	3	2168	
25864	56232	A	26005	670	2541	
25865	56233	A	26006	98	944	YSGIIMAQSKLYPVVMAGGSGS RLWPLSRVLYPKQFLCLKGDLT MLQTTICRLNGVECESPVVICN EQHRFIVAEQLRQLNKL TENIIL EPAGRNTAPAIALAALAAKRHS PESDPLMLVLAADHVIADDAF RAAVRNAMPYAEAGKLVTFGI VPDLPETGYGYIRRGEVSAGEQ DMVAFEVAQFVEKPNLETAQA YVASGEYYWNSGMFLFRAGRY LEELKKYRPDILDACEKAMSAV DPDLNFIRVDEEA/FLACPEESG DYAAMGRTGDVVPLSLGAH

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25866	56234	A	26007	3	417	
25867	56235	A	26008	507	717	WPEAEYLDNADAVLAM YHD/Q GLPVLKYQGFGRGVNIT/LGLPF IRTSVDHGTALEWRTCKPMVP DSIVSCIL
25868	56236	A	26009	5	378	MAVCSSLSPRRSPAFL/HDFTDV WTHHLVFGVNP*RGLIHGTALT DHVG/ENGNYSSD*IHGTALTD HVGKTETILPTKYANIYSINTSK DRFLTKPAFAEVVLF LHPRELQ TCSFFLSQNMLVKVGHQRHWF TEVDVTLTEITQLA
25869	56237	A	26010	1	469	MQKEYAYWMDGLKTCCKPDNR KNALSNFGWYPSQPLLGRSRY ATTESWVEDIATAKSNPNRLPL KFTATCALPLRLAGFQ\PRWMD NPQQLNTLAPPASYRSI*TA*CL K*KNPRPRQQSCRR*RDGNQYE TLANARQKGIEKTCGTINKAG MPITT

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25870	56238	A	26011	2	1854	CGGTLARACDGLNGEFAA/LI TGPVHKGVINDAGI/PFTGHTF FEERSQAKK/VVMMLATEELRV ALATT/HLPLRDIADAITPALL/H QPKYLDNADAVLAMY/HDQGL PVLKYQGFGRGV/NITLGLPFIR TSVGHG/TALELAGRGQ/ADV SFIRPYSAIK*L*NAGASVRWLS ERRICRAITGPVHKGVINDAGIP LPVIPSFSKSVRRRKRCDDAGD RRTSRGAGNDALPLRDIADAIT PALLHNRNILITPTPCWRCTRSG SSRAKIPGLRARCDITLGLPFIRT SVGHGQPLNWRDVANRCWQF YTPLFCHQMIVKPMHNRIPRAT YRGAVKSAIGLGCCCLKASATR CAYRWRRSGRRDQSRFRYFEIA GIRSRGINFIACPTCSRNLMLS VRLTRWSNAWRYHHS DGRFD YRLRGECPGEALVSTLGVTGG NKKAASMKMG AQRP SGQ QDM IDQLEARIRAKASQRTKRVELT FSRLKNNNVEKQDTALFALYQ RRLRCVRKVRRYVMAAVSAGC GGGVCAVSAYMPLNRLPNAQE ANNEYTSFENCIKCTVCTTACR VTLRNNDPKLPYL VKAGL KMK RVTRSPRRYCAAASATHRFNDE RAGKVQGM PDINKLPADRETC STLTCARSRQNQTNPY PANRAA NAYQVVLATKALEKVSMKSP WQHKVSSPAAVRHLP SITQRRT

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25871	56239	A	26012	1	1504	MGIVASASVQAAEIYNKDGNK LDVYGKVKAMHYMSDNASKD GDQSYIRFGFKGETQINDQLTG YGRWEAEFAAWTDMFPEFGG DSSAQTDNFMTRKASGLATYR KTTSSAYRWPELNLQYHRCTS AARAMLLSGRPVMQINERTAV RRQMTVYLRVERIHEIDPLVSL SHSMSVIPIDVERPIAAAPCTPG LWRTKTPLRVPSTYPLRLPGRA RVVCHRTFRLHLCKDWVFMFS GLLIILVPLIVGYLIPLRQQAAL KVINQLLSWMVYLILFFMGISL AFLDNPRPYLADSVDPDRQLLAP VNSISRYKTIEWLNYIATELHK GFTPLFRPDTPEEYKPTVRAHSE KKLQYVNEALKDEHWICGQRF TIADAYLFTVLRWAYAVKLN EGLEHIAAFMQRMAERPEVQD ALSAEGLKGSRHLSAGARRLIL GIIVTFSLILALICVTQPFNPLAQ FIFLMLLWGVALIVRRMPGRFS ALMLIVLSLTVSCRYIWWRYTS TLNWDDPVSLVCGLILLFAETY AWIVLVLG YFQVWVPLNRQPV PLPKDMSLWPSVDIFVPTYNED LNVTPDELKQVLDVAAALKAL RAENISTKVFNSGLGISVFRDNS TRTRFSYASALNLLGLAQDLD EGKSQIAHGETVRETANMISFC ADAIGIRDDMYLGAGNAYMRE VGAALDDGYKQASGFSEPAMR
25872	56240	A	26013	2903	3024	
25873	56241	A	26014	123	335	
25874	56242	A	26015	2634	2787	
25875	56243	A	26016	1477	2485	NPEQLMVKTQRRVITPGEPAGI GPD LVVQLAQREWVELVVCA DATLLTNRAAMLGLPLTLRPYS PNSPAQPQTAGTLTLLPVALRA PVTAGQLAVENGHYVVELLAR ACDGC LNGEFAALITGPG\HKG VINDAGIPFTGHTFEFEERSQAK KVVMMLATEELRVGLATTHLP VRDIADAITPALLHEGIAILHHD LRTKFGIGEPRI LVGGLNPHAG EG\GPMGTTEEIDTIIPVLNELRA QGMKLNGLPADTLFQPKYLD NADAVRPMYHDQGLPVLYQ GFGRGVNITLGLPFIRTSVDRGT ALELAGRGKIADVGSFITALNL AIKMIVNTQ

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25876	56244	B	26017	1	3432	
25877	56245	A	26018	1385	2536	KSSQSHLITGMLEHVFVKSGDT PSR/LPELMNGAQALANQINT/F VLNDADGAQAIQLGAN/HVWK LNGKPDDRMIED/YAGVMADTI RQHGADGL/VLLPNTRRGKLLA AKLPDASRTGETH/TVEWQAP AVAITRTATQARQSNSVDLDK ARLVVSVGRGITDSQTLRLYYI RLPPSLMGMRLTVFLLPICGFH RVGPPTLLSVLATNRNRNAKVF AHKNAPKFRSHTASEQWKSSIA HNKGVHPRVTSHTARHSLME TDIPHNIHSGHASPADITRHRAQ VFNSVPKMASPIGDRVPTLHTQ HNSPANTGKAQSLLTCGPAAES CCRLIPRQMVSLVFRLKARLLLI TTELPKGLVPVATISGTGNFGN TQSANPYRPSENTDLSLS
25878	56246	A	26019	926	1293	LSPNPKEPSCRTLRKKSGFFTRI SAGAEPLMAIPARLSNSLACGA RDSAAKE/GFVVVPVCVAVEA DIAELDDEERDEFMADVGFVTV GVKEVRAWTIPVGATAPQAAG KIHTDFEKGFIQAQT
25879	56247	A	26020	1	1278	
25880	56248	A	26021	678	1526	ERNTNTCEVVPNRKRAYASHD MELSISPVGKGASKGEVNPADD IEVINTELALADLDTCERAIHRV QKKAKGGDKDAKELAVLEK CL\PQLENAGMLRALDLSAEEK AAIRYLSFLTTLKPTMYIANVNE DGFENNPYLDQVREIAAKEGSV VVPVCAAVEADIAELDDEERDE FMQELGLEEPGLNRVIRAGYKL LNLQTYFTAGVKEVRAWTIPV GATAPQAAGKIHTDFEKGFIQA QTISFEDFITYKGEQGAKEAGK MRAEGKDYIVKDGDMNLFN
25881	56249	A	26022	1177	1605	
25882	56250	A	26023	1	644	MDNHIALDFLLASECGSVVYVY ATTHGRNMAGARALWRATGM TDADFGKPIIAVVNSFTQFVPG HVHLRDLGKLVAEQIEAAGGV AKEFNIAVDDGIAMGHGGML YSLPSRELIADSVEYMVNAHCA DAMVCISNCDKITPGMLMASL RLNIPVIFVSGGPMEAGKTKLS DQIIKLDLVDAMIQGADPKIN/D YQSRGRRCPNRCFRCKNQAGS
25883	56251	B	26024	1	1944	

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25884	56252	A	26025	1	1488	
25885	56253	A	26026	1	1919	MNKAHFVSNLGATKCCPLSFLP YRWRRVIAFVVAFYFRHLIDLI VVQMHFKLKGNVDVVFQAQ LIDSTVQLIDSTTTVTQFTHIQ QLMIQRAGTKCRKEDFRHCVGI LEPEWYPIIVRVVVDVVSQFEV RSQSLIFAVGEGITCIYTFITHA VVRLTVNFHVVAQLSSPDWNR PETLPVRSHVTSITQFEVVTFQ TEAPSVGVGATVNVSTVAHGC RQVVVEVRVAQATINKDVVRE VSRRVDVGLAVLIHLTRTVHI VTFSEACSRDDPLSVTVNFGI NTDHDAVNLIIVDGA VVAVEV TTEVAYPCAAVISQAMTRVGQ TSTNGVWTISSVNAFQIRTGAA RSLAPPWSLTEKVFCGTTMER MRAALEAIMPFTSSSATQAPY LPCGREGLAVRQFFGRGEGIE TVAYLFRIRVVRTRVLSIGGF RTRISSTPVKIATLRQNRSDCIA AMIADTYRQVTPTDPFSRHPFS RVLRLGLFFIIFKDTKAHNGIGMI GGVNRADYLNLEKVFGRV SSPQWQATLKAIVPSYGRKLNG DVAATERELQYTSEVVGLNYD KPQAADNNRQHKVRAARSRRQ NRPDRGSQIADSTAGARCRFQT PTAGDGA*SAASTAAPI/MLNLI EKVFGDRVSSPQWQATLKAIVP SYGRKLNGDVAATERELQYTS EVVGLNYDKPQAADNNRQHK
25886	56254	A	26027	1	2130	
25887	56255	A	26028	1144	1309	PGGSTPMAVEDPDFRSSERVLR FQPAVS VYGPEQPAV*DYAQTS YLRTRPRRSDP
25888	56256	A	26029	1	3546	

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25889	56257	A	26030	1097	3332	TRVLVLDHRLRLCLYATVCAG ASWGMNPVVCSSQQIDPQFHTM LMICASEEAQRMQQASEDEFN RALNIAFDNRLGLCKVESARQV FPLTGRYARQFASHRLALVGD AAHTIHPLAGQGVLNLFMDAA ELIAELKRLHRQKDIGQYIYL RRYERSRKHSAALMLADSFVR TTHALRRSHGGFPRLDDAAAL RFANRRTSCERNDDNTWSRSL YADLKNGTAQNIRAKFVFIGAG GAALKLLQESGIPEAKDYAGFP VGGQFLVSENPDVVNHHLAKV YGKASVGAPPMSPVPHIDTRVL DGKRVVLFPGPFATFSTKFLKNG SLWDLMSSTTTSNVMPMMHV GLDNFDLVKYLVSQVMLSEED RFEALKEYYPQAKKEDWRLW QAGQRVQIHKRDAEKGGVLRL GTEVVSDQQGTIAALLGASPGA STAAPIMLNLEKVFGRVSSP QWQATLKAIVPSYGRKLNGDV AATERERKTLHVIFNDLRPEQC EAGKSPSRVQLQWTNGGMLN APLSRLTLVEKLASMLDPGHL ALTQIAQHLALLQKMDHRQHS AFPELPQQIAALYEWFSARCRW KEKALTQRGLLVQAGDQSEQIF TRWRAGAYNAWSLPGRCFIVL EELRWGAFGDACRLGSPQAVA LLGDLLEKATQH LAESINAAP TTRHYHQQWFASSTVPTGGEH
25890	56258	A	26031	115	654	HATQTMTPWFLYLRTADNKL YTGITTDVERRYQQHQSGKGA KALTGGSARSPLIKKALAEQLP GIPIAGGDDFGSVTAGLAR*RF HQRHGPCWSMKAESLQLCRAD CQRRFQPM SFGGHFRHYRLSVC WRYRFIRPEHKTAFTARFPVDN RLGQMVAKPFHLLNATTGNIC GCFNTKRP
25891	56259	A	26032	1	348	
25892	56260	A	26033	1	906	
25893	56261	B	26034	59	910	
25894	56262	A	26035	1	3684	
25895	56263	A	26036	1	2634	

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25896	56264	A	26037	1162	3478	LVRFGLLPLAYSARCFARSSED RPKDECETCCIKYPNGRNVLSQ EIHQVFVLNGIQSMGYVYNLG NELASMQGLVDVVRSPQGSS AREAFSHSLDLARLAEKRGYH RYWLAEHHNMTGIAAATSVLI GYLAANTTTLHLGSGGVMLPN HSPLVIAEQFGLNTLYPGRIDL GLGRAPGSDQRTMMALRRHM SGDIDNFPDVAELVDWFDAR DPILEPTHNGRRLCSTVRHPRM GYTPGVEPTTGPLGQGLANAV GLAIAERTLAAQFNQPDHEIVD HFTYVFMGDGCLMEEGWFTD DTAKRFEAYHWHVIHEIDGHD PQAVKEAILEAQSVKDKPSLIIC RTVIGFGSPNKAGKEEAHGAPL GEEVALARQKLGWHHPFPEIP KEIYHAWDAREKGEKAQQSW NEKFAAYKKAHPQLAEFTARR MSGGLPKDWEKTTQKYINELQ ANPAKIATRKASQNTLNAYGP MLPELLGGSADLAPSNLTIWKG SVSLKEDPAGNYIHYGVREFG MTAIANGIAHHGGFVPTYATFL MFVEYARNAARMAALMKARQ IMVYTHDSIGLGEDGPTHQAVE QLASRLTPNFSTWRPCDQVEA AVGWKLAVRHNGPTALILSR QNLAQVERTPDQVKEIARGGY VLKDSGGKPDIIATGSEIEITL QAAEKLAGEGRNVRVVS\LASS
25897	56265	A	26038	1	1033	MNKSPKTRDIQEELEVLLEE AAGGDEDEKEILIERIQSIKEE KQKGLGLAAGWTADVSSRRPG ASQLPPPTHPIPPYRGWGPPD QHLLSTLWTNVGSYKSGSFLQL GGWCMNLDMDLNSEESRWLF RRHWDTGGIKPKHERKRAVAHL TLSEREEIRAGLSAKMSIRAIAT ALNRSPSTISREVQRNRGRYY KAVDANNRANRMAKRPKPCLL DQNLPLRKLVLKLEMKWSPE QISGWLRRTKPRQKTLRISPETI YKTLYFRSREALNHLNIQ\HLA RSHWLWPGERY\NRNGERGPV TLWTG/TPISDGSRTSVKRALGQ WGEHLSRRNAFFPLCATVV

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25898	56266	A	26039	797	1440	PAMRLTAMRCISMKSRLPASR MQFCATVRWKYRCHREPTLSA QHGAFRSINPTPRNSRGNCWKK REMKWANWPIWCR*KN*RERS LSAICCASRK/TGQFVLPPARYH LRRSHSLRHGRRHTRKGERGTI NIVNGTPIHERSRNIDNRRSLGH WEGDLVSGGVGTVIGVVTGVII FTVINYGLTYIGVNPYWQYIIK GAIIIFAVALDSLKYARKK
25899	56267	A	26040	687	1106	GSLSLTALLPDTAEREEIRAGLS AKMSI/RAIATALNRSPSTISRE/ VQRNRGRRYYKAVDAN/NRAN RMAKRPKCLLDQ/NLPLRKIV LEKLNQHLRRSHS/LRHGRRHT RKGERGTIN/IVNGTPIHERSRNI DNSALVTCLR
25900	56268	A	26041	1	2851	MKTLIARHKAGEHIGICSVCSA HPLVIEAALAFDRNSTRKVLIEA TSNQVNQFGGYTGMTPADFRE FVFTIADKVGFAREHILGGDHL GPNCWQQENADAAMEKSVEL AVVIDLWSRAVIGWSMSPRMT AQLACDALQMALWRRKRPRN VIVHTDRGGQYCSADYQAQIK RHNLRGSMASAKGCCYDNACVE SFFHSLKVECIHGEHFISREIMR ATVFNYIECDYNRWRHSHWINS LLSQKRNTQGRIEDGRQH
25901	56269	B	26042	1	1048	
25902	56270	A	26043	323	1290	GTSMNTVGTPLLWGGFAVVVA IMLAIDLLQGRRGAHAMTMK QAAAWSLVWVTLSSLFNAAF WWYLVQTEGRAVADPQALAF LTGYLIEKSLAVDNVFWLMI FSYFSVPAALQRRVLVYGVLG AIVLRTIMIFTGSWLISQFDWIL YIFGAFLFTGVKMALAHEDS GIGDKRWACGYA/VHLRMTDT IDNEHFFVRKNGLLYATPLMLV LILVELSDVIFA VDSIPAIFAVTT DPFIVLTSNLFAILGLRAMYFLI AGVTKRFSMLKYGLAGILVFIG IKRLIVNFNLLQTRACLGCGWA FGETLIKPGEYRMKTAGG
25903	56271	A	26044	28	96	
25904	56272	A	26045	1	777	

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25905	56273	A	26046	77	532	KPSRPEISKGKSVKPAASRRARE CAVQALYSWQLSQNDIADVEY QFLAEQDVKDQVDVLYFRELLA GVATNTA\YLDGLMKPYLSRLL EELGQVEKAVLRIALYELSKRS DVPYKVAIKEAIELAKSFGAED SHKFVNGVLDKAAPVIRPNKK
25906	56274	A	26047	3	175	
25907	56275	A	26048	85	440	YSSSSLWAARKRRQMVLRSARR FATSDRVCRCVLVWSAGTSRA KSKSTGWLSMASKAIGVSS*TK TPTARRVSSSSLPCGMAIPLPIP VLPIFSRVRIASKTT*GSSLSCFA ARSLMTS
25908	56276	A	26049	80	706	KLIQVAVVIGGGQPLGAFLLCHG LAAEGYRFPVVDIQSDK\AANV AQEINAEYGESMAYGFGADAT SEQSVLALSRGVDEIFGRVDLL VYSAGIAKAAFISDFQLGDFDR SLQVNLVGYFLCAREFSRLMIR DGIQGRHIIQINSKSGKVGSKHNS GYSAKFGGVGLTQSLALDLA EYGITVHSLMLGNLLKSPMFQS LLPQ*KTKLGIK
25909	56277	A	26050	741	893	TGCSGKRSLOQRREERRRNPVQ KIRCTV*RVNRGRIRYCSPRAGF YSRYR
25910	56278	A	26051	269	987	
25911	56279	A	26052	1	1268	MDAKCDRSRFPWLWPTKRPRG CFATFVPIGIPYDQTKTHLHTLS LVAKRLADKTICRRLRAAQSD ELYQIITDTEGTPDEARCEEKQY MVLMI VSGRSGSGKSVALRAL EDMGFYCVDNLPVLLPDLAR TLADREISA AVSIDVRNMPESPE IFEQAMSNLPDAFSPQLFLDA DRNTLIRRYSDTRRLHPLSSKN LSLESAIDKESDLLEPLHGFPDY DTVGFSCKRRIDYVCRIKHSRRI RQVVLLNFAKSGAFSTTRGTDD KTRRSLVTL/VAYFLCAR/EFS RM/MIRDGIVHRII QINSKSGKV GSKHNSGYSAKFGGVGLTQS LALDLAEYGITVHSLMLGNLLK SPMFQSLLPQYATKLGKPDQV EQYYIDKVPFKRGCDYQDVLN MLLFYASPKA\SY\CTGQSINVT
25912	56280	A	26053	1	168	LKVFILVIFTLRSRE*EHAMFGFL FLC*FAENDGFQLHPCPCCKGHE LILFYGCIVFH
25913	56281	A	26054	2	253	

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25914	56282	B	26055	319	3780	
25915	56283	A	26056	513	762	
25916	56284	A	26057	375	550	GVGLCGRSSIRRNM*CK**G*/L SPKIALMACGRRHTRSLFMTSK DLSRMMRLQKEIRL
25917	56285	A	26058	662	1033	EPKRASGCMWPVGAHCHHPLL LLACQQKLGPPSHQASSRS*NIQ TLDRLCMSSWIPQEHSSSQSWH RSCFLNVTRPWSFYSPVGKNR WMGPFWSFSLDALLFFTLHSY VAWPVEMMALNLLG
25918	56286	B	26059	1	2034	
25919	56287	A	26060	369	515	HAKPPGGLGHCSLCPSHYSCIH G*KGPRYVSVSCSRGWKPEAT KAFMW
25920	56288	A	26061	352	2631	
25921	56289	B	26062	10	351	
25922	56290	A	26063	321	537	EPLDTGRGTSHTRACHGVGYW GRDSVRRYT*CK*RINGYSTPT WHMHEYVTNLHIVHMYPRTYS IIKKMSD
25923	56291	A	26064	788	912	VHTHLSERTRKCLPPAPS*WV TCHHGDCCLPTRLRAPQGP
25924	56292	A	26065	1348	1799	
25925	56293	A	26066	606	2219	ATYPSAHYPDHNERGEFLWPSL GLGKELDTFWSSLRVFGSPVSA VSRELVRKFSLGGTV DSTGSLP VCGDISPVSDVA/ACTREPLRFR LQVGDRYITLMDLPGVGESGA RDTEYAALYREQLPRLDLV LW LIKADDRALTVDHFYHQVIGE VYRHKVLFVISQSDKA EPTSGG GQLSTAQKQNISRKICLLHEL FQ PVHPVCAVSVRLQWGLKVMA ERMIKCLPREATSPVVSQ LHP SF RTTVVREQARSDFGETVGAVL DSISAFPLIPAPVRAVIQAVRTT VVSFAASVTLLLPLRSTPVEKS PTCILPASETFPLLVM LN PVAS LLTLTSPVLD TSCPTHSL SAAQP NLIQLSGNNNISFVVNR AVVTN VLNTMRTACNSQATI QIYNADI ARDFGTRGIFSINS GFSTVYSRRI GHQSPEVTGEAMALT LSSQPSC IDDGLVAVNLDTDGLRIGDARQ KAITAGYPVVD TDDKCRIRRLR RIRHEQCADENSYQAYNYCRP VGRIRHLCRIRQSM PDATLSRLI
25926	56294	A	26067	543	741	

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25927	56295	A	26068	3	373	VYTGLKPRITIDAQYTPINVV/W KFLSLTHHAYSPLLVVINKAKF DGLSPEFQQALVSSAQEAGNY QRKLVAEDQQKIIDGMKEAGV EVITDLDRKAFSDALGNQVRD MFVKDVPQGADLLKAVDE
25928	56296	A	26069	1	1107	MGAFTGKTVLILGGSRGIGAAI VRRFVTDGANVRFTYAGSKDA AKRLAQETGATAVFTDSADRD AVIDVVRKSGA*ILILKRRSISSA FNSRASPKTPIPAFTTRISNAPLL RTTSMATSLSVNTAVAPVS CARRLAASFDP
25929	56297	A	26070	39	254	
25930	56298	A	26071	1432	1845	
25931	56299	A	26072	674	1614	AVIVVAILVSKSTGAWVAFSIR MPSITFSHNSVAVASARKDS SPSYGDPLESAIPKLVKRSRSG LSKSLTLTSCSTIWINWITGQT PLKPCSVTGSVVPKAWRSPSTL TTMTTR*PFTLPA/LDTFISRPAG CTYANECHAPESATIRNDVAAR PCNCAQCAALDCVSVFTIRHS CSSVYSAPGILVAALQAGHKPV ALVGGATGLIGDPSFKAAERKL NTEETVQEWVDKIRKQVAPLP DRKNISPADSRLSPDGRYRGYV HPAPPIDSHLIRHRCVIYQWR QCLAQFRLNGWAASRSQSICRI GCD
25932	56300	A	26073	1	3476	MSSSCIEEVSPDDNWyRIANE LLSRAGIAINGSAPADIRVKNPD FFKRVLQEGSLGLGESYMDGW WECDRLDMMFFSKVLRAGLENQ LPHHFKDTLRIAGARLFNLQSK KRAWIVGKEHYDLGNDLFSRM LDPFMQYSCAYWKDADNLESA QQAklKMICEKLQLKPGMRVL DIGCGWGGLAHYMASNYDVS VVGVTISAEQQKMAQERCEGL DVTILLQDYRDLNDQFDRIYSV GMFEHVGPKNYDITYFAVVDR
25933	56301	A	26074	200	1100	
25934	56302	A	26075	1	2061	
25935	56303	A	26076	1	3294	

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25936	56304	A	26077	1	2064	MNYSLKQLKVFVTVAQEKSF RAGERIGLSQSAVSHSVKELEN HTGVRLLDRTTREVVLTDAGQ QLAFRLERLLDELNNTLRDTGR YGATTERSARYSASLPAPTSGR SEPAALVQNSSSQPSSLKENIM KLRSVTYALFIAGLAAFSTFFLA VAQSIRCGYETSQADSQHSGAK KFNDLLQERPKGELKLLFPDS TLGNAQAMISGVRGGTIDMEM SGSNYFAGLSPVMNLLDVPFLF RDTAHAHKTLDGKVGDDLKAS LEGKGLKVLAYWENGWRDVT NSRAPVKTPADLKGLKIRTNNS PMNIAAFKVFGA\NPI\PMPPAE VYTGLETRTIDAQEHPIINVWS AKFFEYVQKFLSLTHHAYSPLL VINKAKFDGLSPEFQQALVSSA QEAGNYQRKLVAEDQQKIHDG MKEAGVEVITDLDRKAFSDAL GNQVRDMFVKDVPQGADLLK AVDEPGWAERDIWAFAPAFFY PLFISDFNRVRLEFVGHYQDVC EKPASTTLWLDVGRSSGLDLTY QTLNVKNDLSHFVPFFDPSDN RTNTLPMVFAGAPDVGLQQAS AIVASWFGSRSGWRGQNFVPL YNQLPDRNAIVFATNDKRPDFL RDHPAVKAPVIEMINHPQNPYV KLLVVFGRRDDKDLLQAAKGIA QGNILFRGESVVVNEVKPLLPA GSQPVWSSSASESRCCFYA
25937	56305	A	26078	1	480	LGNTKTVKGWLAQLPAKYHQ RATCMFDRHGLLALLAGRFLA FVRTLLPTMAGISGLPNRRFQFF KAKLR\WLS*PTRIAAALAFMP/ FMDDHHPRLMQTVILQILQRRG TGDRLKIMVERRYAHVGFCRQ LLDAQVFGVFILNPFQHAANQT EVSLATDQRQ
25938	56306	A	26079	1	2184	

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25939	56307	A	26080	1429	2152	NLFREVVFPTHCPVCGSDVERV EGEAVARCTGALICGAQRKESL KHFVSRRAMDVDGMDKIIDQ LVEKEYVHTPADLFLKLTAGKLT GLERMGPKSAQNVVNALEKAK ETTFARFLYALGIREVGEATAA GLAAYFGTLEALEAASIEELQK VPDVGIVVASHVHNF\LPKKAT AMSSASCWRKVFTGLRRSLSTR KRLTARLLVKPWCLRAASGTP LKRASLLMFSGCFSHTSGLAMY
25940	56308	A	26081	1	2448	
25941	56309	A	26082	125	741	AHLNRTRWKVCWIR*RKISPW AKRNTKTVKG\WLAQLPAKYH QRATCMF\DRHGLLALLAGRFL AFVRTLLPTMAGISGLPNRRFQ FFNWLSGLLWVSVVTSFGYAL SMIPFVKRHEDQCRNGVFGKR KGGIAAALILTRLRRRFVSSWK RFRELRRKSSQADDMNVFGILE DFTHQFIGGAFLRADISGAAKM SCLAKAQASSSMH
25942	56310	A	26083	1066	1359	
25943	56311	A	26084	256	952	RLKRCSTGKSMAVIQDIIAALW QHDFaalADPHIVSVVYFVMF ATLFLengLLPASFLPGDTLLIL AGALIAQGVMNFSGLRIAVLDP RNQVRGGGLSIFKGRWLGPNPK TVKG\WLAQLPAKYHQRATCM FDRHGLLALLAGRFLAFVRTLL PTMAGISGLPNRRFQFFNWLSG LLWVSVVTSFGYALSMIPFVKR HEDQVMTFLMILPIALLTAGLL GTLFVVIKKKYCNA
25944	56312	B	26085	1	1290	

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25945	56313	A	26086	1	1839	MRCQNAWWIMQHSSGSERLSS VLLHFRRTNLADSNDRIQYHSL RFFDEDGAQWLVLGDVLNHG PRNALPDGYAPRKVAERLNEV AHKVIAVRGNLRQRVDQMLLI SRRAINRLVASNWNRRSAQMRC PISGKNLAWIPVQLPVYWQNN CRRLLMRSHRKHGSGTNLPGE LMAIKLIAIDMDGTLLLPDHTIS PAVKNAIAAARARGVNVVLT GRPYAGVHNYLKEHMEQPGD YCITYNGALVQKAAD/GYDDY/ RF/LEKLSREVGSHFHALDRTT/ LYTANRDISYYTVHEFLRCHQ FPLVVCDDGGRMTPRAMFLFSSA HILMPLNYHNSHINTLFPVAGT LMVEPTESKVELDRFIDAML AIRAEIDQVKAGVWPLEDNPLV NAPHIQSELVAEWAHPYSREVA VFPAALVTGGSRGIGRATALL AQEGYTVAVNYQQNLHAAQE VMNLITQAGGKAFVLQADISDE NQVVAMFTAIDQHDEPLAALV NNAGILFTQCTVENLTAERINR VLSTNVTGYFLCCREAVKRMA LKNGGSGGAIVNVSSVASRLGS PGEYVDYAASKGAIDTLTTGLS LEVAAQGIRVNCVRPGFIYTEM HASGCEAWTRRSR
25946	56314	A	26087	2	1275	VNFSPKSSQIHALRTVAGRFA VKSIDYFWHDSCNASKRFHIWE SIMLELLFVIGYLVMLMVTGVS LLGIIAALVVATAIMFLGGMLA LMIKLLPWLLAISVVWVIKAI KAPKVPKYQRYDRWQLAVRRS PLLPDHTISPAVKNAIAAARAR GVNVVLTGTGRPYAGVHNYLKE LHMEQPGDYCITYNGAL/VYRK AAGWLAPLAAKLLLKLMDLI GFLEKLSREVGSHFHALDRTTL YTANRDISYYTVHESFVATIPLV FCEAEKMDPNTQFLKVMMDIE PAILDQAIARIPQEVKEKYPVLK APNLQQPHGSSGSSFHREIFFSS RSEDKRRGGLVVGISLLVVS GPWVRNANEPLGQLKTWFSLS HTLTLTYTRAPACRLTSTQTEP RARPCLSPLSSEPRDRSLTPRLG QRFIYLAVQ
25947	56315	B	26088	1	1509	
25948	56316	A	26089	1	1323	

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25949	56317	B	26090	1	5073	
25950	56318	A	26091	249	531	CWAMRMDSKVGIVTPIRMWSA SGPFAMGTLVPTFAAVTDIPTK SVTTCLRQICERWQAPSTR*SRF ASLSQPAPRFTPSPITLALVLLP ARRC
25951	56319	A	26092	3	1038	LVLFGVAETYPVANDFAAGAG AYVRGRYAAGVRAWPTIITRK TMKTLVVALGGNALLQRGEAL TAENQYRNIAAVPALARLARS YRLAIVHGNGPQVGLLALQNL AWKEVEPYPLDVLVAESQGM GYMLAQSLSAQPMPPVTTVL TRIEVSPDDPAFLQPEKFIGPVY QPEEQEALAAAYGWQMKRDG KYLRRVVASPPRKLIDSEAIEL LLKEGHVVICSGGGGVPTND GAGSESVIHKDLAAALLAEQIN ADGLVILTDADAVYENWGTPQ QRAIRHATPDELAPFAKADGSM GPNVTAVSGYVRSPVQMHRQ FQPVIHIAITNQIDHHRRIHHWL
25952	56320	A	26093	1	3639	MKRLIVGISGASGAIYGVRLQ VLRDVTDIETHLVMSQAARQT LSLETDFSLREVQALADVTHDA RDIAASISSGSFQTLGMVILPCSI KTLSGIVHSYTDGLLTRAADV LKERRPLVLCVRETPLHLGHLR LMTQAAEIGGNTGEIDEEEL LLYAIKGNVFNFTILHLPVA VQNDTIDFYQMFARIWSSHPQ WLTLYLAQHRAVIIPDDAKLHR NLLRWYSAGRLDIPELLDYAQS WRETEPDNEDAPY

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25953	56321	A	26094	1	1260	AWARQDRRLSVKQWGKPPVD ETIPAKEQVRILRKLFDYYGE VAGRGDGFCSPHVARYVGRVA G*RPCRLGPGHPTNRTPFVAPL LEALDIKYFSVVIGGDDVQNK KPHPDPLLLVAERMGIAPQQML FVGDSRNDIQAACAAGCPSVG LTYGYNYGAEIDLSPQDVIYQSI NDLLPALGLPIAKIRNRKMTKPI VFSGAQPSGELTIGNYMGCTEA DRQFAFNFNFLIQLLTNGGP DRLGTTTPAGYTDLLVNYTYRI AFEGGGGQDFGLAAAIATLIFL LVAIMFPLLMVVAISLRQGNFA TGSLIPEQISWDHWKLALGFSV EQADGRITPPFPVLLWLWNSV KVAGISAIGIVALSTTCAYAFAR MRFP GKATLLKGM LIFQM FPA VLSLVALYALFAPRVRAALCY
25954	56322	A	26095	1	3240	
25955	56323	A	26096	494	792	ATRLRHGVTSVGGDGGGLQLTV MDKLDVILLMSV/NPGFGGQSFI PQTLDKL/REVRRRIDESGFDIR L/EVDGGVKVNNIGEIAA/AGA DMFVAGSAIFDQPDAR
25956	56324	A	26097	1624	2390	RTSERRWHAKALLKLFSAHHA GFVCCKEEEERLATGKVGWLP VETLLAQQHIEGHYQVDPSLFK PNADCPVRVSGMSMKDIGIMD GDLLAVHKTQDVRNDPLLVP FTLIREGKLAANWPLEQDELLT RLQKSCDMTQVSADYNALFIG DECAVPPYRSAWVEGATEAEV RAFLSERGMPLADTPADHIGTL LLAASWLEDQSTEDESEALET FKRGA/LPKSLCLWGKAPAPHG SPVGGFSKGPKTWAPHEGAS
25957	56325	B	26098	1	534	
25958	56326	A	26099	67	399	

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25959	56327	A	26100	8	1016	PESRRKAVMTQPVLDIQQLHLS FPGFNGDVHALNNVSLQINRGE IVGLVGESGSGKSVTAMLIMRI LPTGSYCVHRGQISLLGEDVLN AREKQLRQWRG/ARVAMIFQEP MTALNPTRRIALQMMDVIRHI QPISRREARAKAIDLLEEMQIPD AVEVMSRYPFELSGGMRQRM IALAFSCEPQLIIADEPTTALDVT VQLQVLRLLKHKARASGTAVL FISHDMAVVSQLCDSVYVMYA GSVIESGVTADVIIHPRHPYTIG LLQCAPEHGVPRQLLPAIPGTV PNLTHLPDGCACFRDRCYAAGA QCENVPALTACGDNNQR\GAC WYPQQEVISV
25960	56328	A	26101	3	102	ISRLNTQQHFG*RTRQISPHSPQ GCSRCPLHS
25961	56329	A	26102	290	490	SSLNSCMAVWDKTRLIRQ*LV MWSY*SPSPCR*PAGYRHMKL RSTSLVLSTPSRLFLAVIPPVVVI
25962	56330	A	26103	1	3255	
25963	56331	A	26104	119	634	
25964	56332	A	26105	1640	1770	HLDSNRRVHDSTCNWCCNLS* QRLWSG*WSELCCSVPRQKR A

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25965	56333	A	26106	281	2108	RESLKQKVGGRPQLSPFPPDS WALDPGGGRARETPRGVSNAT KEPISVAQHGN/GGDKEIRRELK YYAHLGRRLKDWSGIPRYHGT VETDCGTGYVYDVIAFDGKP SITLTEFAEQCRYEEDIAQLRQL LKQLKRYLQDNRIVTMSLKPO NILCHRISESEVIPVVCNIGEST LIPLATWSKWCCLRKQERLWK RFIAQPALAIALQKDLQPQATE ASGAENMASIASGNIARTDPDM LSIPLSKKICCFGDRHIEPETIDQ PVRFWVLTGPVVDMMGIYACYL SSPQWGWYAERDAEIEINETVR REVEELRQASETDLQPGTIEYE RHRLTRAQADAQELKNARDSA EYVETAFCTFVLSRIAGEIASIL DGIPLSVQRRFPELENRHVDFL KRDIKAMNKAAALDELIPGLL SEYNRADRQYAGGSRVAARFA ASPRVAVLSVITGLIPRHVCAPY LLCGDPCCLPEDMTPRFRRY AVRSGNRSTPGLDHRCDACQR SAYELADLRCRPPSTLFLPEA DKNDFSDALPAVADAMYAAP RRKAAPSKPEKAVVSPLRSVRK ARHGVSCLRPDQYAVRNLP YRSCSSPDQLQFMVWCA
25966	56334	A	26107	1	2880	
25967	56335	B	26108	61	5101	
25968	56336	A	26109	80	561	IRPLPPRFKTESRSLPGPCLQPGT FLWSRNRRLVGFPSMNGEDMG LLFLCSEWERSSEGWLCNREGG SGHSIEPHCCTFLHLTHRSLAFS LLAGVSCTCASSCKCKE\CKCTS CKKSECGAISRNGLWLKVGR EPKAVPEVRASGEPFLCPCRL SLPV
25969	56337	A	26110	1	277	
25970	56338	A	26111	902	1006	
25971	56339	A	26112	2	1265	
25972	56340	A	26113	409	525	
25973	56341	A	26114	91	431	NHKPGNIDVARRIQRGFAGDQI GHLRPVERQCSPDKRRFIAADG REIRGKQRAGHIFQLLSRCLLQI LNHCQRRAAHFRFQLSNQRHQ QLLPV/HYHAAEREYPAGACL RWLL
25974	56342	A	26115	3	71	
25975	56343	A	26116	1	1212	

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25976	56344	A	26117	1	2786	MAAVIEQIRRAVLALVTGVVHP GDIPVWWDIVWNATAAFIAVIII SLLLDSESGFFEWAALHVLRWG YGPGRLPFNRIQLIRRI [*] RRIRQR LLFGLVTFILLNRSQNP [*] AQDIQ LLAFRARTGKQTAQFIHHLPRM VFTDKTGSSNGLAPQGGCSAQ GELILNEKLAKQLVTAANWVK MQSDEGEINPVDILRWPGVMA AQEQDLDAIAAEILAALDGTLD DFIVARETEGQSGLKRVYHSPG APDIREFTRDAIP
25977	56345	A	26118	5	402	EIFS [*] VVWIIMTRGDVVTISRWR VSSSPLETWNKRWAKISPAPFS LLPISRLEKSEGDWLPETVISAF NMPSSLSLISSL [*] FKVRDV [*] HFF /RI [*] TLRGHYRVINWPNFNIVVS QGIGKRLANSWL [*] VFTLFHRI
25978	56346	A	26119	48	219	PETCGHLWAYVWPSCAAV\GL YFKVHVLG [*] RSVTPVTDIVKLL EFTRLRLPGYTKSIE
25979	56347	A	26120	1	912	

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25980	56348	A	26121	1	1857	MRVCARACVTRTRTRMCVYAH TCVCVRTYAYVRVRVRVHVR RVRVCAYARTRVRNSLSILPFIQ LTLATPIHHIHQEEFNIRGIVPVL RRVKPDLAIGIDITPSCDTPDLH DYSEVRINQGVGITCLNYHGRG TLAGLITPPRLIRMLEQTALAHN IPVQREVAPGVITETGYIQLFLP GWEIGFSPALALLAFLCSTSPGF GDPDGLGVIAAYQDTPVPNAAT AISELNALAVKGVILTGDNPRA AAAIAGELGLEFKAGLLPEDKV KAVTELNQHAPLAMVGDGIND APAMKAAAGIAMGSGTDVAL ETADAALTHNHLRGLVQMIEL ARATHANIRQINITIALGLKGIFL VTTLDDRVRVAGSAGRYGGDGA GDSECVKIVAQEIRQTDRNIER DRSPRPSGERVRVRGKGGIEAN QPLSTAFTNQITIRQSIRLFSNQF VFHKGISRVVAGSSAHNSVSPG CILRTPNCRRGFPISCTGEGKAA YGWQRDGGHAEYLLAEKDLI LLPDALSYEDGAFISCGVGTAY EGILRGEVSGSDNVLVVGLGPV GMMAMMLAKGRGAKRIIGVD MLPERLAMAKQLGVMDHGY*I LPDVY/V*IGVARVSWMNGRID SELRTRVRAYAHTRTRARTCTR TRTRTYAYVRTHTHVCAYTHM RVRVRTHARAHTR
25981	56349	A	26122	3	1180	SKLGTRRSVVWA*SPSTSPTLW CSTFSAAGHSSMKRMNEFVDL LPAQQRMKGENWYRGTA TQNLDIIRRYKAEYVVILAGDHI YKQDYSRMLIDHVEKGARCTV ACMPVPIEEASAFGVMAVDEN DKIIEFVEKPANPPSMPNDPSKS LASMGIVYFDADYLYELLEEDD RDENSSHDFGKDLIPKITEAGLA YAHFPPLSCVQSDPAEPYLAR CGYAGNFMESPRSGLRVSCM PAGPPLPLPAARSEAPKAAGTV ASVPSIAPARLRVPDPVELVLV AAEFITPGDPTPRLHSGFIDIR QIHHTQTRSHLEGVKTGIRFLNH FSGNPQGGIAHVNGVARFQVK QCHQAWGQQYAARLRFAQRG SLQIAIHRVDIIHRFDVRQL
25982	56350	A	26123	16	543	
25983	56351	A	26124	1	3387	

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25984	56352	A	26125	1688	2234	LSVGKTFPVLVPAAFRKVSATG AAVPGTPSILALPSYSTTPFGVC TSASMNVPLTLRIRTRVTGEV AAIKPFSMANAPTDSILPQLGV VSTRCS*TITCANR*STSARGSL ERLIMATLL/WVAGTFD*SVWF GHDTDVVTLYRFHEALCYSVT LRTPHRRVLRFKSQHPGELACFI SPVA
25985	56353	A	26126	905	4761	PPHNWMPSNATPGIAFVWCAY GAI/LPGDAPVPVDDYRKVVR KDTKGLIARWKYFWMSVIALG VAFALYLAGKDTPATQLVVPFF KDVMPQLGLFYILLAYFVIVGT GNAVNLTGDLGLAIMPTVFV AGGFALVAWATGNMNFASYL HIPYLRHAGELVIVCTAIVGAG LGFLWFNTYPAQVFMGDVGSL ALGGALGIIAVLLRQEFLLVIM GGVFVETLSVILQVGSFKLRG QRIFRMAPIHHHYELKGWP
25986	56354	A	26127	1056	1373	
25987	56355	A	26128	1	301	SSGTDAGRRYRPRQRPSKSRNN RRVNRQAPQQSSRN/SLRPSTT SSPFSLPVKLPSP/V*SAGMR LAEVRRVDSAISTVDSR*CPTAS SFSTGSITVTL
25988	56356	A	26129	362	595	
25989	56357	B	26130	1	1305	
25990	56358	A	26131	1	2022	MISKRSERSFGYGVGLVRRQDF SSSEGGFFNLHSLRIDINKCLGVRI STATSTMGIVLPEQIKLACNGIQ RVALCGGDDYLTSDVSFDVMF CSRFGWQVRPSSFCSPVFTWVT ENQQHLHRGKDNLSLKNNNSA CGAACGSLRGEKSDPPSARNNP SSQQGGKKESGQQPSLKDPHIL RHDSAHRPRKEKPRQPVNASLV VKFWRVKCVCVHNDHKRPACS VVCVDGDTYCWTEAYPAMGL PTLRGPDSALGERPE
25991	56359	A	26132	3	236	
25992	56360	B	26133	1	4638	
25993	56361	A	26134	1501	1914	SAFSRALTGRQHFNNCFTFRS NGAECLLYHVCQTAFLVARRR VGAAVGFSHIEIVVPLHLLQQP LADLFVHVARRLSSTMGIRDQR PLPG*LLNNITRWRRSAPVDQT HSQSAGFAVTPENAFVASSGPS RHRHQR
25994	56362	A	26135	561	698	

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25995	56363	B	26136	4	2040	
25996	56364	A	26137	804	947	LPCHCSCPWDGDDVQPSPTPRQ WT*GERLH*QSEALPGVCCAPG HGPL
25997	56365	A	26138	1	734	SVHIGHQFFQFQSTSLNICPPLH RLFIAFQMNIRRNAARHAKFQ RLQAQVSIFEDDMSRKIANRQA TAMLNAPPFEANIGIHNVFIGF EAVIRQHFARRLNAFFALLLFR PFRLFCPPGINANQRSQVRQPQ LPRLDITFQFSWLSGGVDQRT VDIVCHQWRSALDRKEYYPAE TTMPTALHSRLCIIVGKIKRPVI VLFREANQARVGLFE/H*STAA RPFWSAAPAGPALPLRVANAPS
25998	56366	A	26139	2	309	
25999	56367	A	26140	472	885	SAFSRALTGRQHFNCAFTRES NGAECLLYHVCQTAFVARRR VGAAVGFSHIEIVVPLHLLQQP LADLFVHVARRLSSTMGIRDQR PLPG*LLNNITRWRRSAPVDQT HSQSAGFAVTPENAFVASSGPS RHRHQR
26000	56368	A	26141	1	2469	
26001	56369	A	26142	1175	1435	
26002	56370	A	26143	218	443	AMARWKMLCTKSPPCVCLPGY P\G*RLAGPHHHHEFPPAGAAS TGPPIVQDQHQLAGRSRRHDDS RHLGRCHHH
26003	56371	A	26144	1	2031	
26004	56372	A	26145	1419	1875	TFCSPRSQPGSLKRRLRAGAGN CPLYSTGNGPLQRAICCAQPT*L HGRVPSHVPATFSSQLWSFTV GACIHRSMYIISRSRCPFDPKTK TATMLGITSFVMERCQLFILSRA FTSGQPTCYPTASSNTWFSST RHCQVINLHSNSMHISL
26005	56373	A	26146	218	441	AMARWKMLCTKSPPCVCLPGY P\G*RLAGPHHHHEFPPAGAAS TGPPIVQDQHQLAGPRRHDDSR HLVRCHHH
26006	56374	A	26147	1196	1462	LNTLVVAVRDGLKMTTVIANN VTSVSVLKIARNVTRKTILPPAA AANVTPYWLIRTIC*KRRYD*K TRWYYAVAACLCNMGTTRKA NG

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26007	56375	A	26148	45	443	APSDPKRDFPLPHGADSAMAE YDRCHRAVLSQGGQWPTALSA GDHAAAYSLHAALVQPERRCHG RCPVRNRLHAPVCPIIPG*RPAG SHHHHEFPFPPARAASSTGPSIVQ DHQSLAGRSRRHDDPRHFGGC HHH
26008	56376	A	26149	581	957	TSWISFSRTTPSTVSPYSTVDAN GIIWSARNRLASVNNIASWLSFF SNPLYLAITKPNCRLMMRNGCS TPGPGCWLSIRC*WAVCSCVD AASRFLPCRGARRSASPHPPRQ APRRCGALW*PASAETNCSSPC SRLPS*LRGCCFKVLTLPGRSAI SQSTSTSASSSALWRPLVAGIG
26009	56377	B	26150	1	3924	
26010	56378	A	26151	597	856	
26011	56379	B	26152	1	2781	
26012	56380	A	26153	2809	2989	RCGYVRE*LAKSLQSNHFQWR MPQHQTAYCRS*AWYRHVAH ERLPAQTDNRHQHADRWNG
26013	56381	B	26154	1	2802	
26014	56382	A	26155	4493	5470	IQRRNHRRDGWCLASLPAGTD HAGARAEAGSWHSGGPHRVR ARSVSTPFAPIVNTATSLKPVR QLLDAALKIDHRRTLKYSFGT FRRWYRSVAAQQAQYKDQVA FFHGCFVNYNHPQLGQDLIKVL NAMGTGVQLLSKECCGVPLI ANGFTDKARKQAITNVESIREA VGVKGIPVIATSTCTFALRDEY PEVLNVDNKGLRDHIELANRW LWRKLDEGQTLPLKPMTLKVV YHTPCHME*MGWTLY/TLELLR NIPGLE/LTVLDSQ/CC/GIPPIRV VIHMFRQIEESGADLVVTDCE CKWQIEMSTSLRCEHPITLLAQ ALA
26015	56383	A	26156	2467	3465	

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26016	56384	A	26157	5758	7019	LKEGLLEPLAVTERLAIIRWRRP TMNDTSFENCIKCTVCTTACPV SRVNPGYPGPKQAGPDGERLRL KDGAlyDEALKYCINCKRCEV ACPSDVKIGDIIQRARAKYDTT RPSLRNFVLSHTDLMGSVSTPF APIVNTATSLKPVRQLLDAALK IDHRRRTLPKYSFGTFRRWYRSV AAQQAQYKDQVAFFHGCFVN YNHPQLGKDLIKVLNAMGTGV QLLSKEKCCGVPLIANGFTDK ARKQAITNVESIREAVGVKGIP VIATSSSTCTFALRDEYPEVLNV DNKGLRDHIELATRWLWRKLD EGKTLPLKPLPLKVYHTPCHM EKMGTWLYTLELLRNIPGLELT VLDSQCCGIAGTYGFKKENYPT SQAIGAPLFRQIEESGADLVVTD CETCKWQIEMSTSLRCEHPITLL
26017	56385	B	26158	1	2247	
26018	56386	A	26159	882	2372	HAVHESPPECRSNQQRPTRTCR TIIDIMEMYHALHVSWSNLQDQ QSIDERRVTFLGFDAATEARYL GYVRFMVNVEGRYTHFDAGTH GFNAQTPMWEKYQRMNLNVWH ACPRFLFDLDGTLVDSLPAVER AWSNWARRHGLAPEEVLAFIH GKQAITSRLRHFMAGKSEADIAA EFTRLEHIEATETEGITALPGAIA LLSHLNKAASGVTNKGFLTVD EIRRVTRAFARLGTEKVRLTGG EPSLRDFTDIIAAVRENDAIRQ IAVTNGYRLERDVASWRDAG LTGINVSVDSLDAHQFHAITGQ DKFNQVMAGIDAAFEAGFEKV KVNTVLMRDVNHHLQDFTLN WQHRPIQLRFIELMETGEGSEL FRKHHISGQVLRDELLRRGWIH QLRQRSDGPAQVFCHPDYAGEI GLIMPYDKDFCATCNRLRVSS IGKLHLCLFGEGGVNLRDLLED DTQQQALEARISAALREKKQTH FLHQNTGITQNL SYIGG
26019	56387	A	26160	68	399	NKVKPRGDSV/PGSPHSPRLLS PPLPGLLLWR/PLEEPFSPPLHC GSPFLGWPRPGGRGLGG/PPHSE QPASLSLPPTPRAPVRPEPPRA PPPAPRRPVPSTTQGLRNASAP

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26020	56388	A	26161	207	479	PWSDGAGPLPSLPHPDGRG*SV NSPQVLL**GSGE/PRASDSPLP QLCGVSPHRPTWGSALWGGEQ CTSEMGETIDPPGPHTFSKNFCF ELQ
26021	56389	B	26162	1	453	
26022	56390	A	26163	1	379	
26023	56391	A	26164	1	1054	MFLQAAQKAWNPHLLLVRTQ AASTHGRRADPHVGRGGETPQ SWGKGESLALAPLSLTAALED CSQISPSHQGTLLCLLILDLRTG KLSLEHTEEPSDVPSHLLYRWSI SSAITEVFQALASSDSTSQPVNV HTKEDMKVQDIALVLP SRKSR NACRTTSTCKALLMRQLAAR VILQNCVSKSSRGIHV PQKNLT LPVRGDSVLGSPHSRSLSAPP LPGLPLWRHLKSPSAHRCTVGG PFLGWPRPEPAPSACREALAAF P/PGQGSGPAAR\QPEPPPPWA PVQPESPRQAPPPAPRSPVSTT QGLRSTGTKHRDWQAAPPAAP VRDPLGEASWAPESGGDVENL
26024	56392	A	26165	2	362	EMSRLYRSRDRD/GVCLQ/IEVK MVS RTEANIDDSLIGGNASAEA PEGEGTESTVITGV DIVMNHHL QETSFTKEAYKKYIKDYM KSIK GKLEEQRPDRVKPFMTGAAEQI KHILANFKNYQ
26025	56393	A	26166	35	359	
26026	56394	A	26167	22	459	
26027	56395	B	26168	102	431	
26028	56396	A	26169	85	674	RRRRLPSVAIMIILPGPSSSHDE MF\SDISKIR\EIADGVCAWKVE G\KMV\SRTE\GTID\DSLIGG\NA SAERPRGAKGTERHQLITGV\DI VMTPHL\QETKFSQKEASKK\YI K\DYMKSIKRET*KNRRPEKSK TFL*PGAAEQIKHILANFKNYQ FF\GENMNP\DG MVALLDYP*D WVVTPYMIFF*GWV*KWEKC
26029	56397	A	26170	1	1640	
26030	56398	A	26171	1	1527	

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26031	56399	A	26172	61	2560	PGFCHPRKAYSSYGQRSKGSQK MKASSGRCLVRWLQVLLPFL LSLFPGALPVQIRYSIPEELAKN SVVGNLAKDLGLSVRDLPARK LRVSAEKEYFTVNPESGDLLVS DRIDREQICGKQPLCVLDFDTV AENPLNIFYIAVIVQDINDNTPL FKQTKINLKIGESTKPGTTFPLD PALDSDVGPNSLQRYHLNDNE YFDLAEKQTPDGRKYPELILKH SLDREEHSLHQLVLTAVDGGDP PQSGTTQIRIKVTDANDNPPVFS QDVYRVTLREDVPPGFFVLQVT ATDRDEGINAEITYSFHNVDEQ VKHFFNLNEKTGEITTKDDLDF\ EIASSTLSIEAKDPGDAAHCS IQVEILDDNDCAPEVIVTSVSTP LPEDSPPGTVIALIKTRDRDSGE NGEVYCQVLGNAKFILKSSSKN YYKLVTGDALDREEIPEYNLTI TATDGGKPPLSSSIIVTLHISDV NDNAPVFQQTSMVHVAENNP PGASIAQISASDPDLGPGSQVSY SIVASDLKPREILSYVSVSAQSG VVFAQRAFDHEQLRAFELTLQ ARDQGPALSANVSLRVLVGD LNDNAPRVLYPALGPDGSALFD MVPRAAEPGYLVTKVVAVDA DSGHNAWLSYHVLQASEPGLF SLGLRTGEVRTARALGDRDAA RQRLLVAVRDGGQPPLSATATL HLIFADSLQEVLPDLSDRREPSD
26032	56400	A	26179	47	325	ATMRLSVCLLLTLALCCYRA NAVVCQALGSEITGFLLAGKPV FK\FQLAQFKAPVEAVASNMEA INCVDTM\AYEKRVLITKTLGKI AEKCDR
26033	56401	A	26180	1	3747	
26034	56402	A	26181	2776	2874	
26035	56403	A	26182	89	369	
26036	56404	A	26183	382	555	
26037	56405	A	26184	2	67	
26038	56406	B	26185	1	444	
26039	56407	A	26186	1129	1275	
26040	56408	A	26187	61	313	WIPHQGYRWSCLPVPRCALAFL SPWVVDGTGHRGAGGGAGWG GFGRTGAHG\GVGGSGMAGCR SRAHSGGVGMTMTWQIIEVP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
26041	56409	A	26188	61	433	WIPHRGCRWSCLPVPRGALAF SPRVVSGTGRRGAEGGARRGG SGRTGAHGVGGRLRHGGLQVP SLAPREGSCTCGG\GSGAREEQ NLGFPREPRSGGGARGSDGICG MRVMFRKWILFCPSSR
26042	56410	A	26189	297	599	
26043	56411	A	26190	370	585	
26044	56412	A	26191	222	799	
26045	56413	A	26192	346	634	
26046	56414	B	26193	206	955	
26047	56415	A	26194	281	549	
26048	56416	A	26195	1981	2337	
26049	56417	A	26196	267	770	TRVDMIHYGLRKGPGETPS*SL RSFRAGQTGASRARGLTLLSSH SSALRKGSPPKHFTLCWQTFLA WCVWKVAFSPSRCQTQFDLGK STQWTLEILTDPKSHLFSRKQQ PQARAPAVFPAPLKGCHVGAR GSHCQGFQGCPRPSVAPLILGT DGFSLLEKLWTFKTC
26050	56418	A	26197	165	374	RVTVQWL*YLRPRMP*N*PRPR SGKPFIDSTHSSHR*RQRNAVSL FSPVMSALRRCSVHRRLPDGGV VA
26051	56419	A	26198	357	981	HWRGDVLRSSHRTALQSRYF CGIYRSP/YKAR/MQIQFFDPQQ MEAAQKRLTEESDILNALENHQ FAIWLQPQVEMTSGKLRGISKQ LVGFTNRQNGATKLLVQYFTH RQIDCAGTADQPNPAGKVDDC GVTGNVTD RQQGKHGQAKE NELQNACAFQRAEEHKQRKYA PQTQVDTKELCIWRIGQTQFRH QQNRNQRHAERTNHFGVR
26052	56420	A	26199	1	2601	

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26053	56421	A	26200	1	1236	MGPGDLPRGLATFWTELGLLS WARELARMPAVEMPPRSCPGR SRLSCSIGVAMFYGDLTAEQLY SRAISAAFTARHKGNQIQFFD PQQMEAAQKRLTEESDILNALE NHQFAIWLQPQVEMTSGKLPG KSAAIMLPLSVNLSALQLMHPN MVADMLELLTRYRIQPGTLILE VTESRRIDDPHAAVAILRPLRN AGVRVALDDFGMGYAGLRQL QHMKSLVRLTKSEVSSETDQDE LPLAKVSEVDEAKRQWLQGMGR HPVDTVTEPEPAEILAEFIRQHS AAGQLVARAVFLSPPYLVAEEE LSVLLESIKQNGDYADIACLTG SKDDYYYSTQAMSENYAAMSL QVVEQDIFSPIAHAVRFECQTY PRPYKVAMLMQAPYYFQEAQI EAAIAAMDVAPEYADIRQGIVG
26054	56422	A	26201	1	1161	
26055	56423	A	26202	1	1038	
26056	56424	A	26203	1	1472	MVRLCIRLPPIRVYAKVVDKNAL SLWMRERSDLWVQPKVDGVA VTLVYRDGKLNKAISRGNGLK GEDWTQKVSLISAVPQTVSGPL ANSTLQGEIFLQREGHIQQQMG GINARAKVAGLMMRQDDSDTL NSLGVFVWAWPDGPQLMSDRL KELATAGFTLTQTYTRAVKNA DEVARVRNEWKAEFPFVTD GVVVRAAKEPRIPPLATGPGRV AGGLEISTCSSGCRSEGNEPGKI SVVASLAPVMLDDKKVQRVNI GSVRRWQEWDIAPGDQILVSL AGQGIPRIDDVCPSPDAILSDIVP SW/VTTQW/LKKRAVSSRMMK NQ/VKKGSETGYFDKDEARFQK EGFRVVPPAALRQGAFIARNT LRPSYVNIGAYVDEGTMVDTW ATVGSCAQIGKNVHLSAGVGIG GVLEPLQANPTIIEDNCFIGARS EVVEGVIVEEGSVISMGVYIGQ STRIYDRETGEIHYGRVP/AGKV DAKTRGKVGINELLRTID
26057	56425	A	26204	240	455	RLHPPYYRGWIFEEVPVISMGV YNGQSTRIYDR/ETGEIHYGRVP AGSVVVS\KVDKTRGKVGINE LLRTID

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26058	56426	A	26205	197	1043	YEKSLTMQQLQNIETAFERRA EITPANADTVTREAVNQVIALI DSGALRVAEKIDGQWVTHQWL KKAVLLSFRINDNQVIEGAESR YFDKVPKMFADYDEARFQKEG FRV\VPPAA\VRQGA\FIARNTVL MPSYVNIG\AYVDEGTMVDTW ATVVGSCAQIGKNVHLSGGVGI GGVLEPLQANPTIIEDNCFIGAR SEVVEGVIVEEGSVISMGVYIG QSTRIYDRETGEIHYGRVPAGS VVVSGNLPKDGKYSLYCAVIV KKVDAKTRGKVGINELRTID
26059	56427	A	26206	1	406	MGKKNWNTLGEVGCSCRMFI PDANTLAKNSACSAASAVQAA DRPDSQEAEEAHMAHSRCAL RCQTLVIVHVSLMRVSWYHSVI IVVPLTEPLLESVRCRLRSRRD DVPVAPAVSATPRREP\SVLRIA ERTNA
26060	56428	A	26207	1	2574	MWAFRGKRPTLKLHVPITNI RKNITSTRGLTKESSQGKI.VRA QEEYTPAREIAKMG\GNPCRPG GIVFAGER*DVTSPYV*TSTRGL TKESSQGKLVRAQEEYTPAREI AKMGWQSLPARRYCLCWRKIR RYITLRLNIAAYAGGYKAPVEDI ALWMETDGACDHVDFTWNIPS KCQGPMDIVSRPVFWHAHGIV LFAGARNLNPTLTRIPPYI.WLL TLRTGYAAAGMQALALDSRGS PDAVVLSTQHSEEDQ
26061	56429	A	26208	1	3771	
26062	56430	A	26209	239	451	LPPTAWMSTTNLTSAMLSVRG NVPMTLPARRRVNLPSSLICTCF HKPA*RISMPKPVW*KARIISGN STS
26063	56431	A	26210	1	2079	
26064	56432	A	26211	1573	2562	
26065	56433	A	26212	275	643	SSRTALFTGSAVPGCAPPSGRSI FPQCLQSKLARSFPIRCRSRGAA ILFRRLSFSPGTELILEDRIVKRF MRENSRGPQVPAGLPMTEEQI KKLGGRQRLALGKLMPGEEES VLRIAERTNA

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26066	56434	A	26213	1	899	MGR TTRR DAAQAPGTRRSGDS RGYPYVTRPEGTDADDPQKDK AALGSHRVAGQPELFSIDELTR RDPHSASGAWTARYTVSTIAAF ALVIANRLYTIEEEATTPSGCGP ASSSTSSRGVDMCLRNLCMHG YDATIPLTLIAADSMDEYNKPD LSHVISQGQRADDLTRQTAGEF AEQFNLHLFPQTWVTDIDAEAR VVKSQNNQWQYDKLVLATGA SAFVPPVPGRELMLTLNSQQEY RACETQLRDARRVLIVGGGLIG SELAMDFCRAGKAVTLIDNAA SILASLMPPEVSSRLQHRLTEM GVHLLLKSQ LQGLEKTDSGIQA TLDRQRNIEVD AVIAATGLRPE TALARRAGLTINRGVCVDSYLQ TSNTDIYALGDCAEINGQRD*SS ARRVVPGRFPGAVRWRQLPHP LRYCAGGPALPECQNPFFPAPV TEISTADERPSPSTDAASGCLLP VALTTPEYWQRCRLA
26067	56435	A	26214	1	1264	MDY MVPVGM DWLCRETAGM RVS IKKGSV VFPLNPEL VMKV V RQRSTIVTPSGFKAGAFNFERFK EASNQTLGSTFLYSLSCPKNL GSQPLDFDTKKSYTLKVEAAN VHIDPRFSGRGPFKDTATVKIV VEDADEPPVFSSPTYLLEVHEN AALNSVIGQVTARDPDITSSPIR LYRIPGDDAKCVQFNREGVKA LKAKPVEKAAPAPAAAAPKAA PTPAKPMGEQLALYRMAGSNA DRIQGRMDPTRGQSAAEWLQT AEEADIAWVLKTYGEERFAKRI ARAIVERNREQPMTRTKELAEV VAAATPVKDKFKHPATRTFQA VRIWVNSELEKIEQALKSSLNV LAPGGRLSIISFHSLEDRIVKRF MRENSRG PQVPAGLPMTEEQL KKLGGRQLRALGKLMPGEEES VLRIAERTNA
26068	56436	B	26215	64	663	
26069	56437	A	26216	27	791	
26070	56438	B	26217	1	1638	
26071	56439	A	26218	1	375	STKKQRGEIHHPDGHGIAQDRH LPRTSVDQRPLRQTNHPAGL*Q ANG*GVFKRCRAHSATT**KDD E*NESAENAA*GGKVEGTDVT GDLLHENPAITPDKCEHNQATD CQWVALSCGRHERSSV

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26072	56440	A	26219	213	407	TTCCCTNLSIPLANKYRSLSPQS DWRLSMPR*NRYVQKAPARAN KTSPMKAPPANIALGVNVAR
26073	56441	A	26220	1	1179	
26074	56442	A	26221	176	569	WPMRHTFSEAHAQAQRAGGKNP GHDTADYATNAVHTEDIAGIIH PQQAFEHGNAPQARQTSYHAD NQRAANPNVAAGWRHADQTG NRARTRPQQ*RLTTQRPFTEDP AKNCRRRCDHSIHKCQCRDFIR RAR
26075	56443	A	26222	1442	2309	
26076	56444	A	26223	155	2929	HLHWFVFGSGWFTVTRLAFGEG NNFFGNINWMLKNIELTAVM GSIYQYIHVAFQGSFACITVGLI VGALAERIRFSAVLIFVVWLT LSYPIAHMVWGGGLLASHGAL DFAGGTVVHINAAIAGLVGAY LIGKRVGFGKEAFKPHNLPMPV TGTAILYIGWFGFNAGSAGTAN EIAALAFVNTVVATAAAILGWI FGEWALRGKPSLLGACSGAIAG LVGVTPACGYIGVGGALIIGVV AGLAGLVGVTMLNAC
26077	56445	A	26224	2	1064	
26078	56446	A	26225	1849	2515	MEGHLWIRIDLSQSAVSHSVKE LENHTGVRLLDRTTREVVLTD AGQQLALRLERLLDELNSTLRD TGRMGQQLSGKVRVAASQTIS AHLIPQCIAESHRRYPDIQFVLH DRPQQWVMESIRQGDVDFGIVI DPGPVGDQLQCEAILSEPFLLCH RDSALAVEDYVPAALPLPEGSPL VVKRITPVVERQLMLVRRKNR SLSTAAEALWDVVRDQGNAL MAAA

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26079	56447	A	26226	102	1655	RKQMNYSLKQLKVFTVAQEK SFSRAGERIGLSQSAVSHSVKE LENHTGVRLLDRTTRAVVLT AGQPLALRLERLLDELNSTLRD TGRMGQQLSGKIVRVAASQTIS AHLIPQCIAESHRRYPDIQFVLH DRPQQWVMESIRQGDVDFGIVI DPGPVGDLDQCEAILSEPFLLCH RDSALAVEDYVPWQALQGAKL VLQDYASGSRPLIDAALARNGI QANIVQEIGHPATLFPMAAGI GISILPALALPLEGSPLVVKRIT PVVERQLMLINVIQTLRFHFIR LSRRQHFAKVTPLLHRHGDYF VFIGFDYGTANCSVAVMRDGK PHLLKMENDSTLLPSMLCAPTR EACGRVDVIEVSKSKVRKNTY AMRYVAGQPAERILPPGSFASI GQALPPGEPLSTEERIRILVWNI YKQQRAEWLSVLKKNYGKDAII LVLLQEAQTTPELVQFATANYL AADHVPFVLPQHTSGVMFLS AAHPVYCCPLRERKPILRLAKS ALVTVPYPIFPYLSNS
26080	56448	A	26227	159	290	
26081	56449	A	26228	562	774	VLRMIT*SKSQFAQDMCRNVLL INNFGRIQHDPALFHFORNEAVP LWTVSAQEVKKDFTSGLRHGS VRGDL
26082	56450	A	26229	50	409	GYASQALILASIPAASRPSSARIS S*VPCGIKKSGRPMFSTGTGLR WAISTSFTPLPAPPIMAFSSTVTS ASWLAASIRINASSSGFTKRIST SVAFSDSATFAASSTNSRNAPPP VEM
26083	56451	A	26230	405	626	
26084	56452	A	26231	1	1528	
26085	56453	B	26232	1	1755	

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26086	56454	A	26233	152	2099	GNRLLVVSFIAFSKNSTHFKGIF AMRIILLGAPGAGKGTQAQFIM EKYGIPQISTGDMRLRAAVKSGS ELGKQAKDIMDAGKL\VTDELV IALVKERIAQEDCRNGFLLDGF PRTIPQADAMKEAGINGHYVLE FDVPDELIVDRIVGRRVHAPSG RVYHVKFNPVKVEGKDDVTGE ELTTRKDDQEETVRKRLVEYH QMTAPLIGYYSKEAEAGNTKY AKVDGTPQIYRGS LYVSDQIG HTIVNPDGVVCDGCRYGCLET VASLSALKKQARVWLKSQPV TQLDPEKLTTAQLIAAWQSGEP WITSWVDRSANAIGLSLYNFLN ILNINQIWLYGRSCAFGENWLN TIIRQTGFNPFDRDEGPSVKATQ IGFGQLSRAQQGVDLGNMIITS GQIPVNPKTGEVPADVAAQAR QSLDNVKAIVEAAGLKVGDIV KTTVFVKDLNDFAPVNATYEA FFTEHNATFPARSCVEVARLPK DVKIEIEIAMLYTGYHYNDAP SAVRYPRGNASGVELTPLEKLP IGKGIVKRRGEKLAILNFGTLM PEAAKVAESLNATLVDMRFVK PLDEALILEMAASHEALVTVEE NAIMGAGSGVNEVLMHRKP VPVLNIGLPDFFIPQGTQEEMRA ELGLDAAGMEAKIKAWLA
26087	56455	A	26234	935	1020	
26088	56456	A	26235	145	373	

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26089	56457	A	26236	530	1865	RGNKRLDLMFKQSHASMYIKQ PEQLDYQLNLKEVITAVFISMV VLNISPTLY/PDKPSPKDKYVAY AINIPDYELAADVYNINVTSPSG QQETFKILINLEHLRQTLERKSL TAVQKSQCEIITPKKPGEAILHA FNATYQQIRENMSEFARCHYG YIQIPPVTTFRADGPETPEEEKG YWFHAYQPEDLCTIHNPMDGL QDFIALVKDAKKFGVIDIIPDYTF NFMGIGGSGKNDLDYPSADIRA KISKDIEDPVTKERKQIHPEDIH LTAKDFEASKDNISKDEWENLH ALKEKRLNGMPKTTTPKSDQVI MLQNQYVREMRKYGVRGLRY DAAKHSKHEQIERSITPPLKNY NERVHNTNLFNPKYHKKAVM NYMEYLVTCQLDEQQMSSLLY ERDDLSAIDFSLMKTIKAFSFG GDLQTLASKPGSTISSIPSERRILI
26090	56458	A	26237	14	2031	LIVLS*QHG/DLRQNRSGAEHFG LQRLMLHASQLSLTHPFTGEPL TIHAGLDDTWMQALSQFGWRG LLPENERVEFSAPSGQDGDPTL GLIKEVACELSGMMRRSQPWE EAEESIPDRGESLLEVSGTPNAG WGAEGLAEREALLCCCGPM GPDPLGLGSPGVSVRGRSRLIHH AISGEALWEVTSEGLDMAAAR QFAIEKGAPALRAMTFIERAAM LKAVAKHLLSEKERFYALSAQT GATRADSWVDIEGGIGTLFTYA SLGSREL PDDTLWPEDELIPLSK EGGFAARHLLTSKSGVAVHINA FNFPCWGMLEKLAPTWSGRNA SHHQTSYRDGPLTQAMEFEDK AQQRDVETARHFTFFRIIANED KKTGFPRFQTIVITASHKTIDRT RYTYGAWRCYRPLLTVEEYRA TGSLITQPKFPPHSSEVHRVPR NQGRFVAVNSTLPTEPATVAPV RNGNASRD TAKTQTAERPSTTR PARQQA VIEPKKPQATVKTEPK PVAQTPKRTEPAAPVASTKAPA ATSTPAKETATTAPVQTASPA QTTATPAAGAKTAGNVGSLKS APSSHYTLQLSSSSNYDNLNGW AKKENLKNYVVYETTRNGQP WYVLVSGVYASKEEAKKAVST LPADVQAKNPWAKPLRQRHRD LRGDERRDDRSEYFNRQVIS

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26091	56459	A	26238	732	1025	HEAKRTGRSYWFTAV*WLRG WRRMVARQNAKNCWHGTFFR VARVSLPISAHASSTHLSGSAH YVPPSAYRNSRRYSRGLCRERV SSCDAATGVVVPQ
26092	56460	A	26239	1905	3087	RVCSCDAGTLHLWLQNLRCGLP VWCDGSGGTSGDPQQRGSEC TG*QSRQ*MRPVQPS*RRPGV YGGLPDS\WLICVDRNKLEQLT PEKRRQAKLRAMKPDEFAQIQ QAVITQMLQHPQTLGEEASKLS KDFDRGNMRFDSRDKIVAQIKL VTPQKLADFFHQAVVEPQGMAL ILSQISGSQNGKAEYVHPEGWK VWENVSAALQQTMLMSEKNEQ NLYDCGALFAPVTWTSGSAAF PRPLTVEELLVVTFTEAATAEL RGRIRSNIELRIACLRETTDNP LYERLLEEIDDKAQAAQWLLL AERQMDEAAVFTIHSFCQRM NLNTNECCFQRTTKTIHRDSFK STPRAAKSCSGLLPALAPSQISS NTPIQPLSRFKFSGVTSPTSAAS
26093	56461	A	26240	1	2235	
26094	56462	A	26241	166	416	CHVVGPFRRNRNLISAQHPLTL NS\RHHTTTAARRLLRYFGTPR YRHSIDIHMQLDMTTSRSLSSL RDQLHCRWLLPAERQAI

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26095	56463	A	26242	1	2084	MLFPLATSGAMEPFPPFLAGTAG ALVGGGLQNIGSGVLAASLMLP QTGQPGVVDDLNGIVDRAVLA AAGDADVASGAARLSARHRSI VISSMGERCCFIRSRTICGHWI CPQGNEIPVVAVASHDTASAVI ASPLNGSRAAYLSSGTWSLMG FESQTPFTNDTALAANITNEGG AEGRYRVLKNIMGLWLLQRVL QEQQINDLPALISATQALPACRF IINPNDDRFINPETMCSEIQAAC RETAQPIPESDAELARCIFDSL LLYADVLHELAQLRGEDFSQL HIVGGGCQNTLLNQLCADACGI RVIAGPVEASTLGNIGIQLMTLD ELNNVDDFRQVVSTTANLTTFT PNPDNSLYTTDKGALRMTTQL EQAWELAKQRFAAVGIDVEEA LRQLDRLPVSMHCWQGDDVSG FENPEGSLTGGIQTGNYPGKR VMPVSYVPIWNSTLSLGSNWF NRKALGSPARYDVLPKWWRN VVKPTRTRYIGIAFYKVGEP KIEPDWMINGGVPELKKQLDL NDAVPEISGTILFREDYRNKPQT QQAADPPIRAKAAEIAVAHAH YLSIEFYRIVRIDPHAEFLSNEQ VERQLKSAMERWIINVLSAQIR PQPAVTHYRGLATVEMPVATG RYPTRYGLVELEPKTGRKHQ LRRHLAHLRHPHIGDSKHGDLR QNRSGAEHFGLQRMER
26096	56464	A	26243	1	2871	
26097	56465	A	26244	690	824	
26098	56466	A	26245	950	1484	

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26099	56467	A	26246	1	2625	MVAFYRHAGRMWPGIALSCSL GNIAASILLFSTSSLNMTWTTINI VEAVVGAVLLRKLLPWYNPLQ NLADWLRLALGSANSAGVNIS TATVCRQCEDAPCANVCPNGAI SRDKGFVHVMQERCIGCKTCV VACPYGAMEVVVRPVIRNSGA GLNVRADKAEANKCDLCNHRE DGPACMAACPTHALICVDRNK LEQLSAEKRRRIPGNIRIRSGR YRRPVTAGCDVVSGRAGYAI HDGGNSMAKNTSCGVQLRIR GKVQGVGFRPFVWQLAQQLSH GSRMRDGTCLNKYDEYSRSGS MQYNPLGKTDLRVSRCLCGCM TFGEPDRGNHAWTLPEESSRPII KRALEGGINFFDTANSYSDGSS EEIVGRALRDFARREDVVVATK VFHRVGDLPEGLSRAQILRSIDD SLRRLGMDYVDILQIHRWDYN TPIETLEALNDVVKAGKARYI GASSMHASQFAQALELQKQHG WAQFVKSDENDAPDRQSGSTG SQCKNCGADTEPQVAAGPGLS ELNPVHCPHLHYRAHFRADRH SVACSLDTPVTGHQVAPTYRQ QVPRAGQVHDPSKHTRMPCEN IDPVRTIIRISDPPVPASATLGA SKASRIRPRRSHSIPEITAKSRKP GGQPKWQVICWLDREKVVV MQTVRDQIGQHVFTAHLDRP TSGVLLMGLSSEAGRLLAQQFE
26100	56468	A	26247	1	1833	
26101	56469	A	26248	1	517	MRNKLSFDLQLSARKAAIAERI AAHKIARSKVSVFLMAMSAGV FMAIGFTFYLSVIADAPSSQALT HLVGGLCFTLGFILLAVCGTSLF TSSVMTVMAKSRGVISWRTWL INALLVACGNLAGIACFSLLIWF SGLVMSENAMWGVAVYTAPR AKCIIHLLNLSASALCAI
26102	56470	A	26249	3117	3527	EAVHRLARYRDAPRRS**SPLL CASVYP*LEQVPLQAQAVVPLR VLQAGKPVVPVAVLNAQAAAL ARPVAKLAAATAVQAAADRQ AAAPAALDAEHVAAPALQAA AGPVDAAAQTHKAVGTGVAA TDEQPHAPER

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26103	56471	A	26250	2	563	STTSSTTAFSATTAGTPSTGNTP SASPIWRRPNFWARKVYLLHW FCHRQPSKEVLFHLALYRN NPR CKAVVHLHSTWSTALSCLQGL DSSNVIRPFTPYVVMRMGNVPL VPYYRPGDKRIAQDLAERETH NHAFLLANHGPPVCGESLQEA ANNMEELEETAKLIFILGDRPIR YLTAGEIAELRS
26104	56472	A	26251	2	1481	PENQINKLKQAIPADYRSHQKC VNQPSSPTITPRLFAITVITDERG YATGSAGNLSL/LLPDGNLLAT PT/GSCLGN/LDPQRFSKVAADG EWL/SGDKPSK/EVLFHLALYR/ NNPRCKAVVHL/HSTWST/ALS CLQGLDSSNVIRPF/TPYVVMR MGNVPLDLAELAA/DNQAFLL ANHGPVVCGE/SLQEAANNME ELEETAK/LIFILGDRPIRYLTAG VCPLAKMLNGTGQYLSIKRCT NNRSVRGTCSAPRAGPKGYGL MMIDVLSASYSAYRSGDRTL LYSYHRASACADSTTLTVLISY TFHLVNSYSTVPPELGSGTQPA SPSFPTRVSDDHNRDFFFLSPC GLLQNLAAQCIRQVGIQLDFGCV IISAQTETDGPLVCGRFEEGTPF SPQTPRDCDPNRSYSGNTQGVR GATSSPGSAISFEQTVNARSHVL RVTLTLGLTRPMLYVTGSLKWI NICILPISLKPLRYIIHLAAQFPT APISLGRSLHVVPHEEVAM
26105	56473	A	26252	1	413	
26106	56474	A	26253	3	247	
26107	56475	A	26254	300	665	
26108	56476	A	26255	1	1854	
26109	56477	A	26256	1	1611	
26110	56478	A	26257	942	1040	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
26111	56479	A	26258	1616	3678	PLAKTGRQREQLAGLAK/AHPS LTLHQDPVYVTRADAPVAGKV ALLSGGGTEHEPMHCGYIGQG MLSGACPGEIFTSPTPDKIFECA MQVDGGEGVLLIKNYTGDI LN FETATELLHDSGVKVTTVIDD DVAVKDSLYTAGRRGVANTVL IEKLVGAAAERGDSLDAEALG RKLNNQGH SIGIALGACTVRS GKPSFTLADNEMEFVGVIHAIL KGDIPAEAEILASIKPAGVVSRA DVVLPNQFQALRKSFIPERPVP VMVTRLFELPVQISLGVYSLER PANPQPIAYLVLPQRRKANNQN ASTSAIIRATIGEPISCSVPSRGC EGGISVAETVPAMIIAIGITISEG LDARYRHVNSEHDPSDRQAKF EWRYFGNLGKTVNDWRKNNK ADIKEDGNRRCRHTNQPHCRIE AVEYDDGRLCPLHGAHRGQSS DGELVKPTVKTQSLAVHYSIGK LRHRPNHGAVYYQRLRSGMGL MNAFDSQTEDSSPAIGRNLRSR LARKKLSEMVEELEQMIRRE FGEQEQLPSERELMAFFNVGRL RAGSVKTQMSGANKQRRTRCV SRPSADTIIGELSGMAKDFLSHP GGIAHFEQLRLFFESSLVRYAA EHATDSRDPRYRPFYSISRVP VSDNITLQQLLSLNDQPARCK PSARCRLHGSHTSRYE CNHRHG
26112	56480	A	26259	185	775	IPEIFSGETHLKVSTLSKPTFSISS LIRCTTRFSSQLSLGIATMSHRK RVISALKSLSRLSANS LVFANQ VERSSLTNLGCTRC SG*SLFWQ RPALR*PFGLCPTVALTYLIVSP EW*KAVSVKCWRNRRLTLMTS PICTNSGTLTTAPVDRVAQVTF QSPECLQHMRLTIALRYFRVAL SRRLLVYASVCFTFSG

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26113	56481	A	26260	301	1313	RLEHDGVCLHRANHRYPGCRL HLDYVEPQLQHDDALRAAVM MFKQYLQVTKPGIIFGNLISVIG GILLASKGSIDYPLVIYTLVGVS LVVASGCVFNYYIDRDIDRKME RTKNRVLVKGLISPAVSLVYAT LLGIAGFMLLWFGANPLACWL GVMGFVYVGVVSLYMKRHS VYGTLIGSLSGAAPPVIGYCAV TGEFDSNAAILLAIIFSLWQMPH SYAIAIFRFKDYQAANIPVLPVV KGISVAKNHITLYIIAFAVATLM LSLGGYAGYKYLVAAGVSV WWLGMALRGYKVADDRIWAA QSCSGFSIIPITALSVMMSVDFM VPDSHTLLAAVW
26114	56482	A	26261	3631	4078	CFLNFKTLLLVLHFRRVFLRIRL RHRKLHPVGLGGPVNKAAYAF CLGAMANGVYGPYAIFASVKM VSAFTVTASTMLAPRWLLGLA GITEGAIPMAIEDPLRVIGSFVL GSMVTGAIVGAMNIINRTLRE ASVTSQIVQTIIRLR
26115	56483	A	26262	814	2126	CTGCRKQRLPVVQGAAGLAA NMIGSGFLGAVVGGLIAGYLM RWVKNHLRLSSKFNGFLTFFYL YPVLGTLGAGSLMLFVVGEPV AWINNSLTAWNLGSGSNALL LGAILGFMCSFDLGGPVNKA YAFCLGAMANGVYGPYAIFAS VKMVSAFTVTASTMLAPRLF EFEIETGESTLLLGLADITEGAIP MAIEDPLRVIGSFVLGSMVTGA IVGAMNIGLSTPGAGIFSLFLH DNGAGGVMAAIGWFGAALVG AAISEGKRIFRYRDLIIVNSNQL FLHDHRFPWEGLESVFLLAA FQQDVGIWPLGAMLGLATAV VLGFLLYWGGIRLNLGAFFKW TSLFILFVAAGLAAGAIRAFHEA GLWNHFQEIAFDMSAVLSTHSL FGTLMGIFGYQEAPSVSEVAV WFIYLIPALVAFALPPRAGATAS
26116	56484	A	26263	1	525	
26117	56485	A	26264	1	700	
26118	56486	A	26265	1	1428	
26119	56487	A	26266	254	475	RDQLVSELNQMLV*KSAFRMA ALITSRWPMVTHWFREVRNGN WRQFLPALTLVRLSLMLMGR QAILRSRRNY

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26120	56488	A	26267	1	1657	MLIQRRRLAFDRAKHRRRAEML AQRARGEESAAHHSSPEGAIEV DESEVDLDAISAQSLRLVRSILM LIALLSVIVLWSEIHSAGFLENI SLWDVTSTVQGVESLEPITLGA VLIAILVFIITTQLVRNLPALLEL AILQHLDLTPGTGYAITTITKYL LMLIGGLVGFSGMIGIEWSKI.QW LVAALGVGLGFGLQEIFANFIS GLIILFEKPIRIGDVTVTIRDLTGS VTKINTRCHTHRRQQLLLQQA ATSSADVIYLGEAVCSKRRATK VGDWLEMAKSLAGSGKQIVLS TLALVQASSELGELKRYVENGE FLIEASDLGVVNMCAERKLPFV AGHALNCYNAVPLKILLKQGM MRWCMPVELSRAWLVNLI.NQ CDELGIRNQFEVEVLSYGHPLPL AYSARCFTARSEDPRKDECETC CIKYPNGRNVLSQENQQVFVLN GIQTMSGYVYNLGNELASMQG LVDVVRLSPQGTDTFAMILDAF RVNENGAAPLPLTANSDCNGY WRRLAGLSLRQIKTCLIFLLCQP RGRRPYRTRAMPPILTMPANSP
26121	56489	A	26268	482	605	
26122	56490	A	26269	1	298	MWPGMVTHAVRIPLHNDTVTL SDNFQPPAGTDMTITRPLEML RDGKCPQPDWISSEGACAGNA TDSPPHFEKAGKTITLEDGRQI NGADYLAAPVPGKALAIFGDT GPCDAALDLAKGVDVMVHEA TLDITMEAKANSRGHSSTRQAA TRESELFRTYVKHSLIFASVIGII TLLQASTKIYTPGRKEQGEPMT PRRTPARF*IKSGQNNHAGRWK AD*RRRLSCSSAR

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26123	56491	A	26270	1	1707	MTRDGLANKALAVARTLADSP EIRQGLQKKPQESGIAIEAVR KRNDLLFIVVTDMQSLRYSHPE AQRIGQPFKGDDILKALNGEEN VAINRGFLAQAALRVFTPIYDEN HKQIGVINDSRWSIIWSVLFGM LVGLIGTCILVKVLKKILFGLEP YEISTLFEQRQAMLQSIKEGVV AVDDRGEVTLINDAAQELLNY RKSQDDEKLSTLSHSWSQVVD VSEVLRDGTTPRRDEEITIKDRLL LINTVPVRSNGVHGAISTFRDKT EVRKLMQRLDGLV/NLC*RTS* TIPLRAHSPQSKSAIYHEIAP*NA PAFYRRKCHCADIFLPYF*TCR\ RDRAMSAYLRYIVQKADSSFL YDKYQNQSIAAHVMRALAAEQ SEVSPEQRRACEAFESANNTH GLNLTAHKYPGLRGTLQTAST DCDTIVEAAALLPAFDQAVEGN RHQDDYGSGLGMAEEKFHYYL DLFRAVGDDGHNSKEDATFGLG WRVNGNATMTPTFGTLASPQT YGHTGWTGTVTVIDPVNHMTI VMLSNKPHSPVADPQKNPNMF ESGQLPIATYGWVVDQVYAAL
26124	56492	A	26271	257	817	TSSRCISLRTSVLSLKVEMAPMI TPLLRGTGTVLISNSRSLIVISSR RGVPSRNTSETSTTCDEWLSV DSFSIVLRLTVIQQFLCGIVDQR DLAAIVHGND AFFDRLQHGLA LLKQRGDFVGFQAEDFFQYL NQNAGANQSDQHAK*Y/LTR*C SSDCH*SVGSHGLTQGRSPPRQ FVYDFHRRWG
26125	56493	A	26272	1	2700	

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26126	56494	A	26273	1	1038	MGCLDLGDGRAGSVARYFRRY RPPCDAALDLAKGVDVMVHEA TLDITMEAKANSRGHSSTRQVL KKILFGLEPYEISTLFEQRQAML QSIKERSRRHRLPKEKKIMTPTI ELICGHSIRHFTDEPISEAQRE AIINSARATSSSSFLQCSSIIRITD KALREELVTLTGGQKHVAQAA EFWVFCADFNRLHLCIPDAQLG LAEQLLLGVVDTAMMAQNALI AAESLGLGGVYIGALRNIEAV TKLLKLPQHVLPFLGLCLGWPA DNPDLKPR/LPASILVHENSYP LDKAALAQYDEQLAEYYLTRG SNNRRDTWSDHIRRTIIESRPF LDYLHKQGWATR
26127	56495	A	26274	1	1338	
26128	56496	A	26275	2	375	HSDPEASGPLTRLRAMEQRRVT DFFARRRTPGSVPSTDRR*TIVR MIPCTSSGRRTKAMVILRTSLV NPASNE/CATELFNALDVSIQNP RMIISP*IQHRTELSGSPLVAVG RMCSLTPRVIFEH
26129	56497	A	26276	219	767	RFTQGGKPINNPAVIRPLDFPQN GSRPLANQ\IFTTSLKVGDFYFGK RHKDVLRAIRNLKCSDDFTQRN FAPIDFIDKNGDVQPMYNITRD GCMMLVMGFTGKTA AAVKEC YINAFNWMAEQLNRRMAMGE ELQHRYAIKETRSKLGKTIGVTR LMNERKKEKRVLELEHEHIMQ VTQPELLIG
26130	56498	A	26277	16	104	HICQSAPL*RGSSGLNGYGQYR PAGFLDG
26131	56499	A	26278	3	399	
26132	56500	A	26279	1112	1831	TGIRNCAPLSLTWKSKTANRKV RCGHIRYPLADGAKTSDGKDY LVVATTRPETLLGDTGRSRLTR KIRVTKEKIGKYVILPAGTAPGV RQGPVWMPGDEVKKVTCKNG VVNEIWTRNHADIPLRPRFAVL ASGSFFSVGLVAERNGIREPILG LDVLQTATRGWYKGDFFAPQ PWQQFGVTTDET/LRPSQAGQT IENLFAIGSVLGGFDPIAQCGG GVCAVSALHAAQQIAQRAGGQ
26133	56501	A	26280	3	790	
26134	56502	A	26281	334	609	

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26135	56503	A	26282	1	1338	MTRHYGAEATNALLPGKASKH QIVGCGVNALSDLDPRRPDKTR SVASGIGAALLRLIKTLADDL QNLTDLSVFNGERYKDAQHV IRAAGEKNQAFIAGARHDI.GGE LGVGLVWIPASKVNGIMGPSV WLTFRVSNIAGESAEGLLVTKP KNYDQVPANKPIVDAIKAKKQ DPSGAFVWTTYAALQSLQAGL NQSDDPAEIAKYLKANSVDTV MGPLTWDEKGDLDKGFEFGVFD WHANGTATDAKRYCANVKG NPDTQEPSPSGVKVNPKVDER LIRQEAGMVFFQQFYLFPHLTAL ENVMFGPLRVRGANKEEAEL ARELLAKVGLAERAHHPSELS GGQQQRVAIARALAVKPKMM LFDDPTSALDPELRHEVLKVMQ DLAEEGMTMVIVTHEIGFAEKV RSRLIFIDKGRIAEDGNPQVLIK NPPSQRLEFLQHVS
26136	56504	A	26283	1170	1575	DPPVLVQRDANSTVRFPHASAS ADPAGDIPPIFAQAAGADLVY VGVEPPKPKAEVILVAEYSPIKT VADLGCPLHVQKVSRYPEFTQ VITPVQCYVTIDALGQYAAWT RANMTYRPGSNIIQNLGNDIRL RTVQ
26137	56505	A	26284	3	1351	RTAPETPNQRPATLDGILGGYI APDNLTITFIGGHSFDERFCLA HRCQKAAEDDAFPHDSLDAAS LLEYAREKLNGLDVEVYHWNL QNFAPEDLLYARFDSPALKTFT EQLQQADGLIVATPVYKAAYS GALKTLDDLPERALQGKVVLP LATGGTVAHLLAVDYALKPVL SALKAQEILHGVFADDSQVIDY HHRPQFTPNLQTRLDTALETFW QALHRRDVQVPDLSLRAPKP KAEVILVAENSPIKTVADLKGH K/VAFAQGS/SSHNLLLR/IRQ AGLKFTDIQPTYLTPADARA AFQQGNVDAWAIWDPYYSAILL QGGVRVLKDGTDLNQTGSFY LAARPYAEKNGAFIQGVLATFSE ADALTRSQREQSIALLAKTMGL PAPVIASLYDHRPPTTIKPVNAE VAALQQQTADLFYENRLVPKK VDIRQRIWQPTQLEGKQL

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26138	56506	A	26285	364	1937	KLSGRHCTAAMFRFLTFCLEGM MPMRNIIKLALAGLLSVSTFAD AAESSPEALRIGYQKGSIGMVL AKSHQLLEKRYPESKISWVEFP AGPQMLEALNVGSIDLSTGDI PPIFAQAAGADLVYVGVEPPKP KAERILVAENSPIKTRTDLKGH KGAFQKGFSSHNLRLRALRQA\ GLKFTDI\QPTYLEPRWRPRAA\ FQTRGTVD\WAIWDPYYSAA LLQGGVRVLKDGTDLNQTGSF YLAARPYAEKNGAFIQGVLATF SEADALTRSQREQSIALAKTM GLPAPVIASYLDRPPTTIKPVN AEVAALQQQTADLFYENRLHY SEYCRPMVSVGNWFLDGSHSV FSYDALDRLVQQGGFDGRTQR YHYDLTGKLTQKQWQYDGHG WLTDISHLSEGHRVAVHYGYD DKGRLTGECQTVENPETGELL WQHETKHAYNEQGLANRVTP DSLPPVEWLTYGSGYLAGMKL GGTPLVEYTRDRHLHRET VRSFG SMAGSNAA YEMTSGTELIDLC
26139	56507	A	26286	511	1152	SVRFNIVFHFMRLLRFCCVLDH LICFTSPVNTFLRYNAFTLCNGE FGMSHPALTQLRALRYCKEIPA LDPQLLDWLLLEDSMTKRFEQ QGKT VSVTMIREGFVEQNEIPE ELPLLPKESRYWLREIL\LCADG EPRLAG\RTVVPVSTLSGPELAL QKLGKTPLGRYLFTSSTLTRDFI EIGRDAGLWGRRSRLRLSGKPL LLTELFLPASPLY
26140	56508	B	26287	184	415	
26141	56509	A	26288	15	87	
26142	56510	A	26289	78	157	CKRYGKARDTG*QPRTQKCTC CELDE

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26143	56511	A	26290	1	1817	MTSAISLGSRCSGRIPSDIIGSNL DITAFNWQPDLLTIWHRQLHLH LTRL DGGGHFYRQEVHLWRTD KSGDKRRPQGDPKTTGITAKVI NVRSTKL VGLPHRITATRWKR KRSRMLHTNTGKL VFNNRDQK RCTRKVMFDKALKLLDEAERL GSTSARSTIYQQCKRQGVITPHS ADFATTVRLLAHL SQRERGKLQ DSIYISLTDHCQFAIKRFQQNVL LPNPLLWDIQR LYPKEFQLGEE ALTIIDKRLGVQLPKDEVGFIA MHLVSAQMSGNMEDVAGVTQ LMREMLQLIKFQFSLNYQESL SYQRL\ VPHLKFLSWRILEHASI NDSDESLQQA VKQNYPPQAWQ CAERIAFIGLQYQQGLTQPAV SKIINDIEDYFGVELVVRKNTG VTLTPAGQLLLSRSESITREMK NMVNEISGEKNPGEGSEKELET VYVQAVGAHWEGNQVWLILA GGALFAAWPRVYAAAFSGFYV AMILVLC SLFFRPLAFDYRGKIA DARWRKMWDAGLVIGSLVPPV VFGIAFGNLLLGVPFAFTPQLR VEYLGSFWQLLTPFPLLCGLLS LGMVILQGGVWLQLKTVGVIIH LRSRVRIPCDLHIYAQMA
26144	56512	A	26291	557	808	
26145	56513	A	26292	8	274	
26146	56514	A	26293	523	1851	
26147	56515	A	26294	1	589	

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26148	56516	A	26295	1	1848	MDLSTPERGSPYPRLLPCGDPL GETIVAIQDEAKPSTEDLGNNK ETKYIKLKVIRWDNSDFNLYS NYERIRARTTKKEDSATNVPVT FEKHGSHAVVYARRSATVLT RNKEAPRVPQGGYMVSVFDIPE ALTQGETVAEAMEAAKDALLT AFDFYFEDNELIPLPSPLNSHDH FIEVPLSVASKVLLNNAFLQSEI TQQELARRIGKPKQEITRLFNH HATKIDAVQLAAKALGKELSLE CLMDILNLNKHISGQFNAELES RTQVMTLGGMVDKQLSDAITA IHNQSDLAKRVIEGHKNLNM MEVAIDEAR/C*AIIAKHQS\TAS D\LRLVMVI/SKTIAEMERIG\DV GRNKICRTALEKLSQQHQ*VV S\LE\SLDRHTIQMLHDVVKAFA RMDIDETAKCQIFVEYVLKPKV IWLLCFANIFLYVVRIGIDQWST VYAFQELKLFKAVAIQGFTLFE AGALVGTLWGWLSDLANGR RGLVACIALALIIATLG VYQHA SNEYIYLASLFALGFLVFGPQLL IGVAAVGFVPKKAIGAADGIKG TFAYLIGDSFAKLGLGMIADGT PVFGLTGWAGTFAALDIAAIGC ICLMAIVAVMEERKSAARKKFS
26149	56517	A	26296	395	1428	TSATATSTFALPRGGGYLVVSE WVVLRTDIFLRIFPCDNGRTILI RFGIFRMLMIVAIETQQFPVTAI FRVIGMVVINNVNASEETNRRL HHRSLRLIQECVMDSLNLNKH SGQFNAELESIRTQVMTMGGM VEQQLSDAITAMHNQSDSLAK RVIEGDKNVNMMMEVAIDEACV RIIAKRQPTASDLRLVMVISKTI AELERIGDVADKICRTALEKFS QQHQPLLVSLSLGRHTIQMLH DVLDAFPRMDIDEAVRIYREDK KVDH\EYE\GIVRQLMTYMMED SRTIPSVLTALFCARSIERIGDRC QNICEFIFYVKGQDFRHVGGD ELDKLLAGKDSK
26150	56518	A	26297	667	1002	
26151	56519	B	26298	1	1716	

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26152	56520	A	26299	1001	2193	LMAATKPAFNPPGKKGDIIIFSV LVKLAALIVLLMLGGIIVSLIIS WPSIQKFGLAFLWTKWDAPN DIYGALVPIYGTLVTSFIALLIA VPVSFGIALFTELAPGWLKR LGIAIELLAAIPSIVYGMWGLFIF APLFAVYFQEPVGNIMSNIPVIG ALFSGPAFGIGILAAGVILAIMII PYIAAVMRDVFEQTPVMMKES AYGIGCTTWEVIWRIVLPFTKN GVIGGIMLGLGRALGETMAVTF IIGNTYQLDSASLYMPGNSITSA LANEFAEAESGLHVAALMELG LILFVITFIVLAASKFMIMRRIA LTLSMATMAFGLFWLIWILMST ITRGIDGMSLALFTEMTPPPNT GGGLANALAGSGLLILWATVY CGPLSDDRGGIRPTI
26153	56521	A	26300	1	1645	MPAFPYTADYFSGLTATTAALA ALHKVRETGKGESIDIAMYEV MLRMGQYFMMDYFNGGEMCP RMSKGGDPYYAGCGLYQCAD GLSLDCVHRRLGAI DPILNECF KDIGLAHLLGTPEIPEGTQLIHRI ECPYGPLVEEKLDWLATHTIA EVKERFAELNIACAKVLTVP ESNPQYVARESITQWQTM DGR TCKGPNIMPKFKNNPGQIWRG MPSHGMDTAAILKNIGYSENDI QELRPPNNKRTKMDRGAMDII GGQHLRQMWDDLADVYGHKT ALICESSGGVVNRYSYLELNQEI NRTANLFYTLGIRKGDKVALHL DNCPEFIFCWFLAKIGAIMHE AVIALASPDNMNAFELTP*SGK LITTFPHLPLAISA*ASPACSSEK RWVMALRGHSFQSVRSWAHFS IWNRLVTQEPIRR

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26154	56522	A	26301	2	1021	TPGNNVDSIFLAFFLNQFLTGY IMGKTISIKVLFGIYLLMAAKV FAFSCNVDDGIIIGAGTTSVYV NLDPVIQPGQNLGVDLAHHISC WNGDGGWYDTHMNLVQGS AFAGSLQSYIGSLYWNNVTYPE PLTTNTNVLDDIGDKTPMPLPFK LYITPVGAAGGVVIKAGEVIARI DMYKIATLGSGNPSNFTWNIIT NNNAVMPGTGGCTVDSRNVTV LPDFPGSAEIPLGVCSEKLS FYLSGATTDSSRQVFANTAPDA TKASGVGVTLMQRQLAGINDS HLLHYLDDEVWDNDYLATPHF LLKSAILRSMNDALMTRVTGE KNGQVRLEEIER
26155	56523	A	26302	522	714	
26156	56524	A	26303	1	976	STCSSRSHLHLIQASPILPNYVA TAVAARIADVQGISDTCVIAQP SPPHPGALRTLVTFTDEPETPQP PGAAGFQLVQKKQVQLHNVLY VMTPHAFAGGTVTIYLPGEQQT LSVAPLKNVVQLVTQQHLRDR LWWPGAFLTDFAAKV KALKD/ YPNHVMAQRASGEAEADDDV AATIKSVRQQLNLNITGRLPV KLDPDFVRVDENSNPPLVGDT LYTVQRPGTEQGSFKVKRARA RVRQTRAPLFGPKSPAPEHMES ELEFELIGPSKSTSGNPRGLRSE RPVLFCLYPEMPTAAARAILIAE EQSREVKIALVVLDRQLRE
26157	56525	A	26304	1	1701	
26158	56526	A	26305	1839	2038	ARSGCFVRQSCPRGRCSKNRR WRDPYDHYPARPAYCP*R/WC M*LSTLATPKKVSPCKPAPAAH RWR
26159	56527	A	26306	1	3270	
26160	56528	A	26307	1962	2049	
26161	56529	A	26308	94	942	
26162	56530	A	26309	1	4104	
26163	56531	A	26310	879	1367	TASELGKSCSRDHTPCTASVRA LYYARLRHAPANDPGEDGWAL AAKPPALPPRNSLNSQAIFRDKP NLPHRSPATYRQTERG*DTRSE FHA*TD AIPVATRARAGEFCRQ MFWGEDQADEQPA**ACCHRK *PVPK*DLAMLRAPPRMDSPPD ASRTSDLHN

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26164	56532	A	26311	1203	1911	SRPAYHPAPREFQRQWRQDPAP GLAITPGQQLFITIKLWNDDHK RPREALLDSLKKLQLDYIDL MHWPVPAIDHYVEAWKGMIEL QKEGLIKSIGVCNFQIHHLQRLI DEGTGVPVINQIELHPLMQQRQ LHAWNATHKIQTESWSPLAQQ GKGVFDQKVIRDLADKYGKTP AQIVIRWHLDSGLVVIPKSVTPS RIAENFDVWDFRLDKDELGEIA KLDQGKRLGPDQFGG
26165	56533	A	26312	3	793	
26166	56534	A	26313	181	336	
26167	56535	B	26314	1	374	
26168	56536	A	26315	591	679	
26169	56537	A	26316	937	1395	YRLAAGSCGIRRRNRHCQRRPG RNSKRLIALISAIGMSIFLQNYV SLTEGSRDVAPSSVPLTPASLLI AGSPPH*TISRLSGPLLREIMLK QLYHCGKSLTNLPREILRM*G* LTGEEIELARGDFHIDIWHRA VTNTAHKTGITQAQHRH
26170	56538	A	26317	627	878	VVEWFEPLICVNGWESKWPVL LSE**PETVGTNCDSSN*IPASLN TSYTGLMAFDAMVAVPTS*TC KIRRRVAGTKCGNPRA
26171	56539	A	26318	125	3078	IYTVEIQNLGFAFVTGENTTGIN SGTISLLQNGKDPAPSPIVLLAT NGGSATNAGTITGKVTEQHSVF NKYSTGTSNSFIFNNDVSSITGL VAQSNSTIINTDSGIIDLYGRGS VGMLAIADSTAENQGKITLDSM WVDANDTTAMRDIASNSAIDF GTGVGVGTDRYRGGRKNAPAF NQLGGVITIYNAGAGMAAYG ASNTVINQGTINLEKNGNYDDS LAANTLVGMAVYEHGTAINQ TGVININVTGQA
26172	56540	A	26319	205	419	
26173	56541	A	26320	1829	2903	AWKVSHCAARPSFSRRWRGEK CTAGRRSQQFSARSTLKPMPS R*SSMHRR**MPSASCALRLPIP PAAQSSHQSKKLRTSDNASPV AARPVPIRWT

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26174	56542	A	26321	402	1781	QRTTGAERYVPHHQPCPPASSL SAGPRG/LHPAKVQEGVDIAIEN DVIVAIGDALTQRYPDASFKEM HGRIVMPGIVCSHNFYSGLSR GIMANIAPCPDFISTLKNLWWR LDRALDEESLYYSGLICSLAIAK SGCTSVIDHHASPAYIGGSLSTL RDAFLKVGLRAMTCFETTDNRN NGIKELQEGVEENIRFARLIDEA KKATSEPYLVEAHIGAHAPFTV PDAGLEMLREAVKATGRGLHI HAAEDLYDVSYSHHWYGKDL LARLAQFDLIDSKTLVAHGLYL SKDDITLLNQDAFLVHNARSN MNNHVGYNHHLSDIRNLALGT DGIGSDMFEEMKFAFFKHRDA GGPLWPDSFAKALTNGNELMS RNFGAKFGLLEAGYKADLTICD YNSPTPLLADNIAGHIAFGMGS GSVHSMVNGVMVYEDRQFN FDCDSIYAQARKAAASMWRRM
26175	56543	A	26322	284	340	
26176	56544	A	26323	113	646	WTLVPNWNNTQPYLGLFF*FIR DFADFGTTIKQDFRLLGQTSVD RLLQLSQGQAVKGNQLLPVSL VKRKTTLAPNTQTASPRALADS LMQLARQVSRLESGQRSDDSLR EKKITKKHTKKRTASLILHAMI CCRSLNSSKTKNTKCLNSINQR LKILSLQKDLMCGTAGRCKTLT EQ
26177	56545	A	26324	1	582	
26178	56546	A	26325	3	947	QTQEWSGSATFTSDGKIRLFYT DYSKGHYGKQSLTTAQVNVSK SDDTLKINGVEDHKTIFDGDGK TYQNVQQFIDEGNYTSGDNHT LRDPHYVEDKGHKYLVEANT GTENGYQGEESLFNKAYYGGG TNFFRKESQKLQSSAKKRDAEL ANGALGIIELNNDYTLKKVMKP LITSNTVTDEIERANVFKMNGK WYLFTDSRGSKMTIDGGATQA FAKENNQKAYKETYGVSHTIR HDMLQIPKQQQNEKYQVPQFD QSTIKNIESAKGLDVWDSWPLQ NADGTVAEYNGYHVVFALAGS PKDA/G*HINLHVLSK

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26179	56547	A	26326	2	223	RIPKNIESA KGLDVWDSWPLQ NADRTVAEYNGYHVVFALAGS PKDADDTSIYMFYQKVGDNSID SWKNAGR VFKDSDKFDANDPI LKDQTQEWSGSATFTSDGKIRL FYTDYSGKH YGKQSLTTAQVN VSKSDDTLKINGVEDHKTIFDG DGKTYQNVQQFIDEGNYTSGD NHTLRDPHYVEDKGHKYLVFE ANTGTENGYQGEESLFNKAYY GGGTNFFRGATQAFAKENNQK AYKETYGVSHITRHDMLQIPKQ QQNEKYQVPQFDQSTIKNIESA KGLDVWDSWPLQNADGTVAE YNGYHVVFALAGSPKDA/G*HI NLHVLSKGRRQLNRQLEKRG
26180	56548	A	26327	1	803	MLEDPRKGLETPSPVSHNLHFQ FHLGPLLP GSPMKKWPALVVT GSKSPKLESYKHFQKIWDMHG EPSKREEGAGLTVNQHIPNGAS TCNEGPQRLEALGARIPMAAGF SSSKPTLVTPRRAYRADLRLEG YWGCQGVPGGPLVAQGGATQ AFAKENNQKAYKETYGVSHIT RHDMLQIPKQQNEKYQVPQF DQSTIKNIESAKGLDVWDSWPL QNADGTVAEYNGYHVVFALA GSPKDA/G*HINLHVLSKGRRQ LNRQLEKRGPC
26181	56549	A	26328	2	439	
26182	56550	A	26329	1	1084	MVIAAMETQLSNGPTCNNTAN GPTTINNCS SPVDSGNTEDSK TNLIVNYLPQNMTQEELKSLFG SIGEIESCKLVRDKITGGATQAF AKENNQKAYKETYGVSHITRH DMLQIPKQQNEKYQCDNLKT CHTSHGSVMAETA VINHKKRK NSPRIVQSNDLTEAAYSLSRDQ KRMLYL FVDQIRKSDGTLQEH DGICEIHVAKYAEIFGLTSAEAS KDIRQALKSFAGKEVV FYRPEE DAGDEKGYESFPWFIKRGATQ AFAKENNQKAYKETYGVSHIT RHDMLQIPKQQNEKYQVPQF DQSTIKNIESAKGLDVWDSWPL QNADGTPERR**HINLHVLSKG RRQLNRQLEKRGPC

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26183	56551	A	26330	34	1949	MGYLNNVAGYREDLLANRAIV KHGNFALLTPDGVVKNIIPGYE NCDATILSTPKLGASFVDYLV LHQNGGNQQQFGVEGIETFRY VISGNITAKAEGKTYALSEG LYCPPGSLMTFVNAQAEDSQIF LYKRRYVPVEGYAPWLVS SELERIHYESGMDVILLDFLPKE LGFDNMNHILSFAPGANHGYIE THVQ\EHGGATQAFKENNHK AYKDTYGVSHITRHDMLQIPKQ QQYEKYQDTHDTPYCEPLPGET RLWGD TDVIGL FDAETDMNDV VAILENHPLL GAGFAHKIEQLE DKDWEREWMDNFHMPMRFG LWICPSWRDVPDENAVNVMLD PGLAFGTGTIQTLSVPAMLDSS THTRMRSTLNLYEITRMSTVS TSEHSMTYTLVQVDMKEAQKP DTASYRTFNEFFVRPLRDEV RPI DTDPNVLVMPADGVISQLG KIE EDKILQAKGHNYSLEALLAGN YLMADLFRNGTFVTTYLS PRD YHRVHMPCNGILREMIYV PGD LFSVNHLTAQNVPNLFAR NERV ICLSDTEFGPMAQILVG ATNGG SIETPESEGATVDES FVVGGPVG DFELLCHGTVC VVGKMRDLIL QLSKSSIYST KPPSRQVSVMLC
26184	56552	A	26331	1	145	LRLGLLYGRRFVPPP*YALLNK DSSPWYPFSVPVLASKTRYLWL LSPT
26185	56553	B	26332	1	3090	
26186	56554	A	26333	3	832	
26187	56555	A	26334	1	3258	

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26188	56556	A	26335	184	2324	ENRVRLFVLIVFQDLPTCYVNH NFVCTAADTFTTDITPKAGDAR LIGIAQTVRHLEDPRAWKSIH KSCEILDPIHRAPVKENTHPARK INISDPAAGAVARIRYEGVLSVC RASASAYVSRRTITVACWYVS NTGVTGATIGVKRQHRHARLFS GDGAPGFGTGKRDIRQLRRLVR IQIQRFFAAVLHVPTPWSRAID AAALLTVIDVKVLTACACQAC RTLALRVAQVIDRCSNPGDIMS SVARRYWFISRWSAKRDCAVS YDQDPGQAQRSCRSCLVAVDR GLWLSAYCRSLMTQTLLPDDV PRILPNASSPSRLRCLQHLGNYR LLDLRKLIWLHRSQFSLCGWEK RLVKDLTRIQDTGRAKEILGAT ATLEFRLVNTNVDQAAAASGR VPGDSEVKQTREGQPVVLYKR VILTDHITDSTSSQDEYNQPQ VNISLDSAGGNIMSNFTKDNIG KPMATLFVEYKDSGKKDANG RAVLVKQEEVIIIANIQSRLGNS FRITGINNPNEARQLSLLLRAGA LIAPIQIVEERTIGPTLGMQNIEQ GLEACLAGLLVSILFMIIFYKKF GLIATSALIANLILIVGIMSLPG ATLSMPGIAGIVLTLAVVDAN VLINERIKEELSNGRTVQQAIDE GYRGAFSSIFDANITTLIKVIILY AVGTGAIKGFAITTGIGVATSM FTAIVGTRAIVNLLYGGKRVKK
26189	56557	A	26336	1	369	

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26190	56558	A	26337	1	1316	MNGLLDSDSDSLSSCQQRVKA RLHEILQKDRDFTAEDYEKVES RIYHFARLSVGGYTADSSLTLK VYLQLMKAPKKRRGEVNVGT VVAFIKGGFPVVKDYFRPAA DGSSALCRFFPTGNVHDQSDPQ KVTGDGAVVPVQPTDGPGLRCL RRARGCGAGRQGREQAQDCG AEIQAEAASRASRVQEGSYPRP PNGPFSTDLTGLMQFTKLLVLK VESQLTRRIRKCHNLREANIREE LRFFNCTNVALRTGVQFNRRPD SPGYSRGLVSPERHVRTRLTYFT SESHVHSLLSILRYGALCNRGG TLCCRAIHTLHRHTIVLNGVTV TLNLVQLTFYGNVSEIRHQCQ LTRHGNHPLPLTAIQGIALFSDN QAAYRFRADQRTLRFGLPVAR QPVRRGGFHDIVIVDFDGTARQ QQE/LRLQLRVFSSFVLHEKKR
26191	56559	A	26338	2	1415	
26192	56560	A	26339	1434	1667	KRTDWRDRVAFRCRSIAESG*R QAIAKELELTASAEILLWDDYF APGYGVPNDEGMEAVKLLARL EGILLDPAVRLR
26193	56561	A	26340	1	1671	
26194	56562	A	26341	1067	3947	FCTVPNAVYIGGPGFGARHNAS NSLKDIAELVPFAHRYGAKIFV TLNTILHDDELEPAQRLITDLYQ TGVDAIVQDMGILELDIPPIEL HASTQCDIRTVEKAKFLSDVGF TQIVLARELNLDQIRAIHQATD ATIEFFIHGALCVAYSGQCYISH AQTGRSANRGDCSQACRLPYT LKDDQGRVVSYEKHLKSMKDN DQTANLGALIDAGVRSFKIEGR YKDMSYVKNITAHYRQMLDAI IEERGDARASSG
26195	56563	A	26342	182	881	HAELPYRGLLLKLGESRGCLL PASLPFSLQEFFYSGPREELAQK TLLVSVWDYDLGTADDFIGGK CDPADQDVVHTALREITREELG LAVPEEHVWGLLRPVYDPQKA TVVPVLAVGGLDPQSLRPNSE EVDEVFALPLAHLQTQNQGY THFCRGGHFRYTLPVFLHGPHR VWGLTAVITEFALQLLAPGTYQ PRLAGLTCGAEGLARPKQPLA SPCQASSTPGLNKG
26196	56564	A	26343	237	338	

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26197	56565	A	26344	279	533	IHLRRILQRGQ*PRQRWRERCC ESGRGTSGPGSSQ*LTGSPQECC TPAGETGPRAHSPQ*SCWCHCC TPQGRQSICRTTSHTA
26198	56566	A	26345	126	303	LLLSYGVGASHQSLECHHRSNH GSLWMHSKRCAGGKIRVGTPE CQ*SALERPGLPLC
26199	56567	A	26346	368	746	SLLHTTSRAPEGPSRYPGPGPPS AATKGQRTTRPLCARPP/PGLPD APL/SPAAPTPTLPLPCPRVAQP AHGPPSASALSSWENRPCCRHE LAAKPPEQAARRGHARTPTAG PAPPGRRAALSGSQFP
26200	56568	A	26347	79	159	SFLGVSRRGGFRVTGQ*WRE GQQINK
26201	56569	A	26348	1	3369	
26202	56570	A	26349	3	529	MELAKVVKSHPSAKMVLCIAT DDSHSLSCLSLKFGVSLKSCRVT LLENAKKHHVEVVGVSFHGR GCPDPQAYAQSIADARLVFEM GTELGHKMHVLDLGGGFPSTE GAKVRFEEIASVINSALDLYFPE GCGVDIFAELGRYYVTSFTVA VSIIAKKEVLLDQPGMEEFNCS
26203	56571	A	26350	146	502	

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26204	56572	A	26351	3	2212	MKRSRCRDRPQPPPPDRREDGV QRAAELSQSLPPRRRAPPGRQR LEERTGPAGPEGKEQPPALASQ SAEIAASARLPPRLGRLLGFQK ACRCWSLNPILMALLRSLVPP DKKHPQVWRGRPPLHLAPNVG LFSRVKVRSSVVEDKSMRDSR RGLSQRRRRRKKKKRGSSSKK KKKRKKKKKKKKRKKRKRKN RKKKKKKRKNKRKKKRKKEEK KEEEEERRKKEEDEEGRGRGR RKKRKRKKRKRKRKRKKKETA AAAAGERLGKWWPGCEPVEC VAYFLRRRLQQLRHLPARQLLL QGMAGYLSEDFVMVEEGFST RDLLKELTLGASQATTDEVA FVADLGAIVRKHFCLKCLPRV RPFYAVKCNSSPGVLKVLAQL GLGFSCANKAEMELVQHIGIPA SKIICANPCKQISQIKYAAKHGI QLLSFDNEMELAKVVKSHPSA NFHIGSGCPDQAYAQSIANAR LVFEMGTELGHKMHVLDLGGG FPGTEGAKVRFEIIVSVINSAL DLYFPEGCGVDIFAELGRYYV TSAFTVAVSIIAKKEVLLDQPG EEENGSTSKTIVYHLDEGVYGI NSVLFDNICPTPILQKSSTKSL TTIGEAFERLHRLLRERQKAML EELEADTARTLTIDIEKVQRY QQLRKVQEGAQILQERLAETDR HTFLAGVASLSERLKGKIHETN
26205	56573	A	26352	1	860	MKKEDAFKAFYIVHGKWNCV KGSLTRTPCCCTNCLAGGIWC MRVQIFQLENKVLPGFPWACR VDLYGQIGFDAAAQCLSLSVSK AEPLVKKAPPELREQLARKTLS SDNLKYLFDNKDIMKVKQSKK KKEHSFRKNNGCIKIIAFSDHAE DFRKLGCEVLGISVDSQFTHLA WINNPQREGDLGPLNIPLLAEV ASGLSEDYAVLKTADAGIAYRG RFISDGKGVLSQITVNDLPVGR SVDEALRLVQAFQYAEHA EVCPAGWKPGTDTIKLNVGDSKE

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26206	56574	A	26353	70	745	ERGSTRVIVRASSLCPRSFQSWP PVTRASESQPLTSRPQRWSDGA FKEVKLSQDYKGYVVLFFYP DFTFVCPTETIIAFSNAEDFRKL GCEVLGVSVDSQFTHLAWITT PRKEG\GLGPL\NIPLLADVT\RR\ LSEDYGVLETDEG\IAYRGL\FII DG\KGVLRQITV\NDLPVGRS\V DEVALRLVQAF\QYT\DEHGEVC PAGWKPG\SDTIKPN\VDDSKEN YFSKHN
26207	56575	A	26354	1	689	MAAEDELLLPRLPMLLETGKQ LLDEVELAAETTGYQIVQEKRA REHFNYLTQCHYYHIAKFEL KTKNNSAENHTANSSMAYPSL VAMASQRQAKIERYKQKKELD HRLSAMKSAVESGQADDEHER PPVKSFILTRNTAQAKLFGASYP SLATMTVSDWYEQHRKYGALP DQGIATATPEKFRKAAQQQKY QEVKEGEDDE/ALYRVREWDN WKDTHPGGYGNRQNMG
26208	56576	A	26355	1	810	NYLTQCHCYHVAEFELPKTMN NSAENHTANSSMAYPSLVAMA SQRQAKIQRYKQKKELEHRLSA MKSAVESGQADDERVREYLL HLQRWIDISLEEIESIDQEIKILR ERDSSREASTSNSSRQERPPVKP FILTRNMAQAKVFGAGYPSLPT MTVSDWYEQHRKYGALPDQGI AKAASSSSSSSSSSSSSSSSSSSS SSSSSSSSSSSSSSSSSSSS/PSSQEFR KAAQQQEEQEEKEEEDDEQTL HRAREWDDWKDTHPRGYGNR QNMG
26209	56577	A	26356	223	359	RKQQDEPCGHLQSPGKPFLTLS CRDPWGGLPV*LEKDHRKKKS
26210	56578	A	26357	1	3855	
26211	56579	A	26358	1005	1293	SDRRYEWDP CPR*LNGALLCLL LLEHPEGCPWHSVWSTGHSLEP MHFRFPSSQDLQLLLPLPGKLG YRARIRNHGHSCLQRRKTVYQ GDGPLREP
26212	56580	A	26359	763	978	

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26213	56581	A	26360	1	1217	MQRRLKRRNAGLPCCEVPGYY REDASSPLLPHYKTNFSQCLVH FFDEL RHHLVKTRHVLFIPLNH DIMQAFTLHARVIVGKVPGIFS RHPHAVLHLGHSQIGLLMEYPD ELLWECKEDALALIRRDAPMLT DFTHNLLNAPLLDKQAEWCEV FDRGRITSLLLFEHVHAESRDR GQAMVDLLAEYEKVGQLDCR ELPDYLPYLEYLSVLPDDQAK EGLLNVA PILALLGGRLKQREA PWDALLDALVQLGGSSLSND VKKQVNSEERDDTRQALDAV WEEEQVKFIEDNATACDSSPLN QYQRRFSQDVAPQYVDISAGE GQSSFQLVSYWEKDVQTCLEFL PSGGFVVS LASGVKLQFTTETD NLVKDITFFGKISTRSLKTYLKD VTEKREQSCVNLELK
26214	56582	A	26361	1	783	
26215	56583	A	26362	2	1646	PGSTISFRRVTQREKKQPEAELC QGSTSNLFQFIHPSLLSAQTVEL GLSKFVPPKMIITQTSHCYMTS LGILFLINILPGTTGQGESRRQEP GDFVKQDIGGLSPKHAPDIPDD STDNITIFTRILDRLLDGYDNRL RPGLGDAVTEVKTDIYVTSFGP VSDTDMEYTI DVFFRQTWHDE RLKFDGPMKILPLNLLASKIW TPDTFFHNGKKSVAHNMTTPN KLLRLVDNGTLLYTMRLTIHAE CPMHLEDFPMDVHACPLKFGS YAYTTAEVVYSWTLGKNKSVE VAQDGSRLNQYDLLGHVVGTE IIRSSTGEYVVMTHFHLKRKIG YFVIQTYLPCIMTVILSQVSFWL NRESVPARTVFGVTTVLMTTL SISARNSLPKVAYATAMDWFIA VCYAFVFSALIEFATVNYFTKR SWAWEGKKVPEALEMKKKTP AAPAKKTSTTFNIVGTTYPINL AKDTEFSTISKGAAPSASSTPTII ASPKATYVQDSPTETKTYNSVS KVDKISRIFPVLF AIFNLVYWA TYVNRSAIKGMIRKQ
26216	56584	A	26363	217	559	MKKALQVAMFSLFTVIGFNAQ ANEHPHETMSEAQPQINSATGV VKGIDL\ESKKITIHHDPIAAVN WPENTMRFTITPQTKMSEIKTG DKVAFNFVQQGTL SLLQVIKVR KPAQ

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26217	56585	A	26364	72	157	ERRKF**SQSSQKKNKERLQNA VIYLEL
26218	56586	A	26365	3	620	VSGGGWEPSTLTAFKTASAIT TEMASRS\QGIQQLLQAEKRAA EKVADARKRKARRLKQAKEEA QME\VEQYRREREHEFQSKQQA AMGFQGNLYAEVEQATRRQV QGMQSSQQRNRERVLAQLLGM VCDVRPQRPSDLQKEEMTTFS SLIIPARACRFLVRAQQSSGHLH YRAKDPVGTRSLRHRTRSSRIHG GVPTEKTCVAKT
26219	56587	A	26366	28	187	TGTESGQYHCKRRKMGPEPIIK SLWARSDEPVFWG/LFGAGGM WSAIIAPVMIR
26220	56588	A	26367	1	870	MAVWPTGALALTSPAGDAGA CSTAGGPCQGARGPRGSGPPA WGPDAVLEPLRGQRKPYVRPM TSTWWKKLPFYRFYMLREGTA VPAVWFSIELIFGLFALKNGPEA WAGFVDFLQNPVIVIINLITLAA ALLHTKTFELAPKAANIIVKD EKMGPPEPIIKSLWAEPEMINPNP KRSDEPVFWGLFGAGGMWSAI IAPVMILLVGILLPLGLFPGDAL SYERVLAFAQSF\GRVFLFLMI VLPLWGLHRMHAMHDLKI HVPAGKWW\FYGLAAITVVTI IGVCTI
26221	56589	A	26368	741	894	
26222	56590	A	26369	504	558	
26223	56591	A	26370	897	1097	RKWSQSTRLPWETGPSSETSPS GPIVSPTRSHLASPRRPPPTPP*S SPRRLLAGAIPPGIGVPLNE
26224	56592	A	26371	200	657	GPRLSFVTGHKAYRGLGIVSG PTVPLVCAVCCSYWDPGVPRV VRLVVRLWPLCRCGGRSGDAS VAAAPLVCGGGI*DWDHCPFV CGPSLCALRPSCGCGSGMACRV VLLRCPLAMFAFTSFFSVTEV GKFSPFPLPEFFSGFALDLSLP
26225	56593	A	26372	196	404	
26226	56594	A	26373	1	3162	
26227	56595	C	26374	287	349	
26228	56596	B	26375	366	1637	
26229	56597	A	26376	365	604	VLAVSYPSLCLLL*KPIGPEDAI YALSSDFTCGSPTAAGRKQIRG EVCPRERCSVETCLSPNFHSLVS SFPFSLQGFK

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26230	56598	A	26377	1	1404	TLVRCFPPLKLIFSIFKKKAASL GSSQSSRTYAGGTASATKVSAS SGATSKSSSMNPTETKAIPVSQ QMEGPHLPNKKKHKKQAVKTE PEKKSQSTKLSVVHEKKSQEGK PKEHTEPKSLPKQASDTGSNDA HNKKA VSRSAEQQPSEKSTEPK TKPQDMISAGGESVAGITAISG KPGDKKKEKKSLTPAVPVESKP DKPSGKSGMDAALDDLIDTLG GPEETEEENTTYTGPEVSDPMS STYIEELGKREVTIPPKYRELLA KKEGITGPPADSSKPIGPDDAID ALSSDFTCGSPTAAGKK\TEKEE STEV LKAQSAGTVRSAAPPQEK KRKVEKDTMSDQALEALSASL GTRQAEPELDLRSIKEVDEAKA KEEKLEKCGEDDETIPSEYRLK PATDKDGKPLLPEPEEKPKPRS ESELIDELSEDFDRSECKE KPSK PTEKTEESKAAAPGSCVGGCVS
26231	56599	A	26378	1	688	ITAI SGKPGDKKKEKKSLTPAVP \VES\KPDKPSGKSGMDA\ALDD LIDTLGGPEETEEENTTYTGPEV SD\PMSSTY\IEELGK\REVTIPPK \YRELLAKPIGPDDAIDALSSDF TCGSPTAAGKKTEKEESTEV LK AQSAGTVRSAAPPQEKKRKVE KDTMSDQALEALSASLGTRQA EPELDLRSIKEVDEGSLPDFQQQ SLSLGLPWPKMGQFLSSTFLEG SPATQRK
26232	56600	A	26379	199	384	VYKECR*GFSHESPPSKPQS/HIE *KFCMCGENGQGLRKKSSSKN SFFGTSFTWVGREN VKHI

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26233	56601	A	26380	166	2172	TYILRNLYKEVMLENYRNLLSL GKAVFFPFLH*FSRDLLIT*YVP QSQQFLSQHVLQIFLGLCAENH FHPGNSSPGHWWKQQGQYSHV SCWFENAEGQERGGGSKPWSA RTEERETSRAFPSPLQRQSASPR KGNMVVETEPSSAQRPNPVQL DKGLKELETLRFGAINCREYEP DHNLESNFITNPRTLLGKKPYIC SDCGRSFKDRSTLIRHHRIHSME KPYVCSECGRGFSQKSNLSRHQ RTHSEKPYLCRECGQSFRSKSI LNRHQWTHSEKPYVCSECGR GFSEKSSFIRHQRTHSGEKPYVC LECGRSFCDKSTLRKHQRIHSG EKPVCRECGRGSQNSDLIKH QRTHLDEKPYVCRECGRGFCD KSTLIHERTHSGEKPYVCGECC RGFSRKSLLL VHQRTHSGEKHY VCRECRRGFSQKSNLIRHQRT SNEKPYICRECGRGFCDKSTLIV HERTHSGEKPYVCSECGRGFSR KSLLVHQRTHSGEKPMFTFSG VTPQLLERTVLLLAEMHSRDAL RSGTHSQPQGAACCTTGAMHLC RGTFWPQPLTQRGQLQKVIPDP EIPIELKDHWWADTLQVSFFLCP VLPSLPSESSIFCLVVCSSINYAV APQSGLMREKDVHVWECGPPP FARTAPITPTSDQNWRPLREKY
26234	56602	A	26381	434	946	NTFCLTAMKILCMWFSRWHSR WVGMMQGPSC*PQRTLWMATLS STGRSCVPAACPAPCGRISAA GRLRCSQLLPHAPAPAACCSCP SVHISFQPL*QLRTSLWTVQMK SQVTQTQVGSHSSTSQARALQG HQQVQKPGSRIRTGGVKPQLEG PGRWLKIRLEGHSWTCRQ
26235	56603	A	26382	3	2119	

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26236	56604	A	26383	3	2237	NRRKFSVSI GFYTVMDAQYKII TKTAHLITKESPQEEGKEMFAT MSKLKEQLTKVRK*FNALLYES QQLLIPLLEELEKQMTSFYDSL KINEIITVLEREAQSSALFKQKH QVRTILFKWCNSSQKMTLCLVL GSMISMLSTAKITIAGYKSEVEV SVSHHCI*NCKKTLTIEKGSQS VQKFVTL SNVLKHFDQTRLQR QIADIHVAFQVICSPC*DWKKH VETNSRLMKKFEESRAELEKVL RIAQEGLEEKGDPEELLRRHTV SPPFRDQRVLNAFLKACDELTD ILPEQEQQGLQEA VRKLHKQW KVSQDRTA YHLLHLKIDVEKN RFLASVEECRTELDRCLKMPQ EGSEKIIKEHRVRLPHHSPHLC EKRLQLIEELCVKLPVRDPVRD TPGTCHVT LKELRAAIDSTYRK LMEDPKWKDYTSR*PQNGLW ISTNETQLKGIKGEAIDTANHGE VKRAVEVSSGSLSKRGETLSWL KSRLKVLTEVSSENE AQKQGDE LAKLSSSFKALVTLLSEVQHLL THFGDCVQYKEIVKNSLEELIS GSKEVQEQA EKILDTENLFEAQ QLLLHHQVKMPLSSAKKRDVQ QQIAQAQQGEGGLPDRGHEEL RKLESTLDGLERSRERQERRIQ VGAGS*ERFETNKETVVR YLFQ TGSSHERFLSFSSLESLSSELEQT KVYYGSLESIAVQAENLVKEAS
26237	56605	A	26384	1	390	GTSLFDEEGAKIVKDLMSKA EK NGVKITLPVDFVTADDFDENAK TGQATVASGIPAGWMGLDCG/P ESSKKYAEAVTRAKQIVWNGP VGVFWEAFARGTKALMDEV VKATSRGCITIGKRSYTKLIPI

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26238	56606	A	26385	1125	2228	NVMSHLGRPDGVPMMPDKYSLE PVAVELKSLLGK*VPGSGAGRL CGGGSCQARCYAGSVILLENE FHVEEEGKGGKASGNKVGPV TLLGVRA*VCKRLWLNVDAT GTAHRAHRYQEPCLPH*EQYS YLLE*PKYFAKALESPPERFLAI LGGYEELFKIML*VLF**AIT WIGGGMAFTFLKVLNNMEVGN KCQVDVK*LSMIIAGCINEKNG VKITLPVDFVTADKFDENAKTG QATVASGIPAGWMVSHLSGLV V*VNRNSVVSFIHFVWNGPVG VFEWEAFARGTKALMDEVVK ATSRGCITIIGKRSYTKLIPI*AG RILIRGRCTGGGASLELLEGEGL LFFGLFGIRVDCAVRGG
26239	56607	A	26386	2	482	TRQAWHEGPRGVPHSASLRSA RRQSAPSLTESPTSVPCISKMA LSNKLTLDKLD\VKGKRVMR VDFNVPMKNNQITNNQRIKAA VPSIKFCL\DNGA KSVVLM\SHL G\RPDGVPMMP*QVTPLEPVA/V VELKSLLGQGMFCS*RDCVSPE VEKACANPPG
26240	56608	A	26387	3	378	
26241	56609	A	26388	311	578	LGIRGQTLGFLSRARCGGSRRS LEMQNNAGEFVDL*VPRKCSA SNRIIGAKDHASI QMNVAEADK VTGRFNGQFKTYAISYFLNLFL HH
26242	56610	A	26389	3	333	DAWDLCRVTSCFLSLSRVWW QQAQPSLEMQNDAGEFVDLYV PRKCSASNRIIGAKDHASI QMN VAEVDKVTGRFNGQFKTYAIC GAI\RRMGESHDSFLRMAKADG IVSK
26243	56611	A	26390	23	389	LAASFLSRARCGGSRRRTQALEM QNDAGEFVDLY\VPKNSAS NRIIGAKDHASI QMNVAEVDK VTGRFNGQFKTYAICG\AI\RRM GESDDSILRLAKADGIV\SKNFL TGEESQDVGIFCHK
26244	56612	A	26391	206	354	
26245	56613	A	26392	1227	1430	GSSSPRDPQEEDLKLLKFAFSR GPPLSLVHPPPLLSYPSARR*PQ TPPRPPRHPSLHPLHPPSAQP
26246	56614	C	26393	17	319	

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26247	56615	A	26394	1	645	MIHEQNENIKKNTKTIKKNQTEI LELKNTVTWKNLLEVFNNFR QNEESVNLQTSYLKSLSRGEKR KKKCEEMIRDLGQYQPGPYMH DGYSRRESGPNVPRRAQVDGG DARKGTHRRKRVLERGLWLKR EDKKAQGYKGR*KGPRV*GTD PQEEDLQRLSAETWLV*PEPR P*KAPAKKGEKV*GRKGKAD AGKEGNNPAENGVDKTDQAQ KAEGAGDAK
26248	56616	B	26395	1	663	
26249	56617	A	26396	265	735	VMWLRYDTLSETHMHQLLGL NLLFLLSQD*VAEFHMELEWLP ATDTQTNAIYKRPVSLEPYLME GGYNKVFLAKGNIPAKSYTFIHI LLDTIRDEMAGCIEKAYEKILFT KATWILFLNTPKQMDNTKK* GWVLGPNNYYSFASQQQKLED TTIPS
26250	56618	A	26397	215	386	
26251	56619	A	26398	3	515	QLPESAYMHQLLGLNLLFLLSQ NRVAEFHTELERLPKDIQTNV YIKHPVSLEQYLMESYNKVFL AKGNIPAESYTFIDILLDTIRDE IAGCIEKAYEKILFTEATRILFFN TPKKMTDYAKKRGWVLGPNN YYSFASQQQKPEDTTIPSTELAK QVIEYARQLEMIV
26252	56620	A	26399	423	4482	KLWVILFDFICLAFL*FFSTYMY SCE*ILVKLTLYFSFHVYLLIYC ECENLTGTLDLVFI*KCKSLLIW IA*TVYKKIHMGEVKG
26253	56621	A	26400	173	174	AVSLLKHSNNDLCSS/GFPTSRT ADPTSCGSH/WPWPQSLKQ*P ELYIGPF*PRLELKQLGCRA PSP
26254	56622	A	26401	135	699	RDLVPCAPAAPAMAKRGQDTV WAMASEGASPNPCQLPQGVEP AGQCRKMWG*SPHTEPPLGT A*WESLELPRDLLNGFDQAD NDMDNEIQAEVVSDEELVG NQSKEGTWCPVQLLQLWLKGA KIQFGPWLRVQAPILASFHKV LSLQGS AEGKCGVEAPTQSPH WALPSGAVRRGPPSSRPQNGRS TNCLHCEPGKAADTQCQPVKA ARREVPCKAKGAELPKTMGT DLLHQCDLGVRHGVKGDHFGA LRFDCPTGFWTYMGPVAPLVW PIFPIWNSCIYMPVPPIVSRR

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26255	56623	A	26402	27	264	RLVEWL*PRDLLNGFDQNADNDMDNEIQAEEVVS DGDEELVGNQSKGTWCPVPQLLQLWLKGAKIQFGPWLQRVQAPILASFHKVLSLQ
26256	56624	A	26403	624	955	VPSLGSFHVVLVLSVHRRQELRFGNLHLDFRRCEMMPGFPGRSLQR*SPHGEPLLGGCRRMWWGQSPHTESPLGH*LMEL*HPPSPRMIDPPTACAVPLEKLQALNASH
26257	56625	A	26404	851	1387	PKIVELLKYSGDQLERKLKKDKALMGHFQDGLSYSVFKTITDQVLMGVDPGRGESEVKAQGFKAAALVIDVTAKLTAIDNHPMNRVLGFGTKYLVKENFSPWQQHGGWEKILGISHEEVD*NIRFVIRNTLCLLWSCARWPSDGPTGDYNVQGRWSIDVFKTIIPVTGEASGEVSFV
26258	56626	A	26405	1	229	LRRLGITHVLNASHSRWRGTPEAYEGLGIRYLGVEAHDSPA FDM SIHFQTAADFIHQNKRAISALHLCRKSGIRQA*MSIHFQTAADFIHQNKRAISALHLCRKSGIRQA
26259	56627	A	26406	2	594	SVLGLTLPA PRFKTLRRRWVQGQKVLRLKAPFGKKPRGSLTFWRASTRVRDMANNRRELRLRGITHVLNASHSRWRGTPEAYEGLGIRYLGVEAHDSPA FDM SIHFQTAADFIHRALSQPGGKILVHCAVGVSRSATLVLA*PHAVPPPLPFVEAIKKVKDHRGIIPNRGFLRQLLGLGPQLAAGSGSMRGGGEKLR
26260	56628	A	26407	605	1231	NCSNSGVWRISHKKERSIPDSKRRRSRGNTKSSSPRPTTRSLEKLTSGSPRIWPVRMS*LHDKARRASFSSSSSAIKKAFSSASRSSNESVSSLSNSLEGQSKSMSISSSSTGVGSRLALGLYTSSEMVKGSSFILSSSSSLGGSSYSRAAFTGELEIKGAEMFSSLGNGTPVLRAVTLPLESLSRRTNTLLLQWFPMCNWRLRRVWI
26261	56629	A	26408	771	1121	FSPKLLPRREGRKPCAPARTQTTPRSKSSTPPSQV**SVDSDPQPKGKQDRSRGGPLQERAQRESGNLLAATVVP RPRAERHPAISTEGPTGPPEGSAPSATSSVAAAGPAPHSR

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26262	56630	A	26409	3777	4343	DQEEPFGSGNSSIIQSLFTIKLNPQ SSLQEVCSLDTHNSPVRVFKNS CSAKFHFKFVWNVILLQLSSE ELILSFVIPGVGHWCSSYCYILQ PRIFPLWSFYIVIVYVEDSSICVSS LFPSWR*RP*IIGSIK*CLSSQMG WNFQSW/NLPR/CVVLVLWSIK KGL/HIWCMPDFPAFRKESLLN FRWLGHLLA
26263	56631	A	26410	473	667	PCSDWGWRSPPWNLQLEETWAL *CCSHSHKVSQEGTWMKLETH LSKLLQGQKTKHPMFSLTGGN
26264	56632	A	26411	1416	2108	QRANIQNLRQTQTNLQEKRNPI NKWVKDMNRHFSKEDIYAAN RHMKKCSSLAIREMQIKTTMR YHLTPVRMVIIRKSGNDRCW GCGEIGTLLHCWWDCKLVQPL WKTVWRFLRDLQLEIPDPATP LLGIYPKDYKSCCYKDTCTRM FIAALFTIAKTWNPTPKCPSMI DWIKKMWHIYTMEYYAAIKK DEFMSFVGTWMNLETIILSKI.L QRQKTKHRMFSLIGGN
26265	56633	A	26412	1	278	FRCSYYFYFYFFCFLFSLLLF *IFFLFLSLLFASLLFLASPLCVC YFFFIVVAQFLNSLFHFFSLFVL CFSGLEVSIDISSVEILSSAMSIT LMGLSKAFLIT
26266	56634	A	26413	181	742	PLKSGCISFLLLRLLVKLYRFL VRNNSSTFNQVVLKRLFMSRT NRPPLSLSWMIQNIKLDPREN KAVAVGTITDDVRVQEVPKLK VCALRMTSQARSGILGAGGKIL TFDQLAPDAPKCGTVLLSGPR KG*EVYRHFGKAPGTPYSHTKP YIRSKGRKFETRGRLASRGYK NYRSYPLIKDCL
26267	56635	A	26414	368	675	SLSTLLSSRDCLATISKQLRVL ARGCVVNNCFCKHLLNTCSLA GTVPG*GASSGRQKFKLLAKFK VLARLCSSGSGRGEPFSCI.FLFL GATGILRLMASSS
26268	56636	A	26415	40	355	LLGNPSPVVKGRPCRHDGSEI/A PRVYFRGCS*SSHSWVSHFLSA PSHPRMLPTSRHRPPLRPLT*ER RGKRRDD*PLHHP*P/CWSTCSP STSARATPTPPSGSGW

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26269	56637	A	26416	347	725	EAKRRRPLSTLMEKRCFQPLWT RPSRKKPRGRTWRPPALNPTRI AGPPSPPAVSPGFGPIPP*SISCFP KGPGFSMGFLRLRCFSAVQKVL APGSPA*PCLSCGPFRALGDL ARTPEKLCWLEERS
26270	56638	A	26417	525	708	IVAELIQHHQLPCSHPLSGGKIK DQQVVFLSLSP*SSHNTLY*AP KTNQRPQDYPEGCNA
26271	56639	C	26418	1	1050	
26272	56640	A	26419	934	1708	PQRGVWVLSVILHFPWLGSGLP PNSAGD*AARYSWNQILKPCD* WKLSSAAGISFQRS*VNFHYGE FCPKIPSGMYESKLGSHDTP HFLPAQKTRSTPSPATAPLPAT SPRPPRGRRRRRRCPEQQPPPL QAGPTAAARHRQDPLPRFSPLC FHSHPRASGAGSRPAPARVSPW TRRPAAPVSSGRGRLAPKRSLS PRPPRPGQGGGRVPARRELPLA PRGLCVRLVYSLCSSLCGSLPSF SLGSLVFSSSDQG
26273	56641	A	26420	630	734	TAARSGYPGRAGTLTGLHPMQ VCRRCR*PYSRGT
26274	56642	C	26421	4	90	
26275	56643	A	26422	216	305	ICWKYFCAG*CGKYFTLGPRSH SYRRSDY
26276	56644	A	26423	859	1248	CVISVFRASRKS KHNVI AVVFS YCSVSVGQRPA VP/QHQVLLQT QGISGYPRAGTLTGLHPMQV CRCRR*PYSRGT**/REPS*LREG GSAPPKSVCWPVGACIKRLSSM SSSFSSFPFIKHAHACCRVLS
26277	56645	A	26424	132	548	SSGFSWGFFSGYQRCRESR/CD YPPPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPVI GVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEVWDHGPT IVGLIISLGPRSHSYRRSDNQTG TTVPLVSSV
26278	56646	A	26425	382	697	YAVKQAKTTFEDMTGRRASLL LHKGYLEFELFLQTAAYQSGSP APQGTWSGTGSVCHCCSLAE*T PFRTTGACCGLMARTGHARAA SICPPDAVAPLSPSPNAWF
26279	56647	A	26426	167	412	SYVKYFPHQPAQKYFQIHCAL GLHNAGYPGRAGTLTGLHPMQ VCRRCR*PYTILSLQEQT DVVSL N

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26280	56648	A	26427	3794	4021	RGLCAPLPPLTPCFSPPLRRRAA SHLAPPTPLPTPQTPTTRTRALPS SPGLGRGA*RTVLPSAPPEVPLA WGCRRA
26281	56649	A	26428	65	564	PHPDSGPQ*LQ*PHPDSGPR*LQ *PHPDSGPR*LQ*LQ*PHPDSGP Q*LQ*PHPDSGPQ*LQ*PHPDSG PR*LQ*PHPDSGPR*LQ*PHPDS GPR*LQ*PHPDSGPR*LQ*LQ*P HPDSGPQ*SDSGPRGHR*LQ*L Q*PHPDSGPQ*LQ*PHPDSGPR* LQ*PHPDSGPR*LQ*PHPDSGPQ *LQ*PHPDSGPQ
26282	56650	A	26429	184	438	DPAVDLCDLSSRRLIFS*RYVL VMLFSISLVSFVFISVHVICNYPF ALFFVCASFCCGAGGLVEFVL MIVGDASAALLCMRCEC
26283	56651	A	26430	524	1995	
26284	56652	A	26431	601	1058	LPSSGGRCRSPKTR*SACLVSGS PRTPAMIRSGAGQPLARSPPTPT PPFCRPLTRAPQASSMTWTGTS TTTWTLCAMRTDCTGLPSTSPT WCFCTRSSSWPAATSGSNSRAP ARSWSTLCLSC*SASTRPGPRGP CRRQWWRRATPSRPSAR
26285	56653	A	26432	1	371	
26286	56654	A	26433	71	335	
26287	56655	A	26434	2	416	
26288	56656	A	26435	60	370	
26289	56657	A	26436	466	1454	PCVFQIGPRRIHTVRVRGGNKK YRALRLDVGNFSWGSECE*GPL GVGGKTHLNGFKIHRARPALIF LNSAA*EIGAGKDCGLPNITRN VG*GVVEDELMPHGL*RLRVPF ISP*GPHGAEEPGGVCQGHLS LLDAKFLL*AGCTRKTRIIDVV YNASNELVRTKTLVKNCIVLI DSTPYRQWYESHYALALGRKK GAKLVRVTS*GLWGGQPDSS LLVMKTLSSSATEGREMRAF*A EEGQHWGVQGSRLPGPAFLP* AHIFVSPFQTPEEEILNKKRSK KIQKKYDERKKNAKISSLLEEQ FQQGKLLGEKADELEVGSRRD

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26290	56658	A	26437	2	787	SQWLKLPSPHAGISRY\NWD QAP*KTGGPRESYPYHKKREVM KLGRPSCPN/NPKIGPPAGIQHSP VCRGGYQEIPVPLRLDRGEFI.P GGSECCTS*NKGSSIVVLQCHL NNGAGFVPKTPGWKEFCIVASS DQQQPYRPVVTSSHLACPL.GP QRKGAQAGLLEERRDF*TKKRS \KKLRKEI*LKRKKNCQNSAVI. PGREQFPARGKLSCRA/SRFQGP GQLWAEQDGFCA*EGQKSLIEF LSLGKSKARKGQIKSFVLSSPM
26291	56659	A	26438	62	872	ANWTEPDDTKTMWRLSVPLDR SPQTQNCCTGEPLMPTGRQELPQ RGPEPMEAPAPARPQSRRVPAA GPVARQPHMRPPHSKQGEKQK MPGSRWPGQRGRGRWGSPLES A**TRKIFTGIPILPLPGTPGRP APEEGMQSADKNRVKRRGGTQ RNSALALEFCELLFVSSKWFCALP STLRLKALSAAVALLAGDPE FGVRNVVWVWAGGVRCKRVA HRTTEAGAFFPDWFWVFAAT KRGDGETSGCEHSEPVSGSSGG SPPRGQYLPGM
26292	56660	B	26439	1	606	
26293	56661	B	26440	48	381	
26294	56662	A	26441	16	209	
26295	56663	B	26442	466	1275	
26296	56664	A	26443	2	252	
26297	56665	A	26444	95	266	
26298	56666	A	26445	119	343	CTLRQESKLSRGDLTAPPVSSPR GHRSSKKGNT*LGSMLQ*AES CRAEPPRPALLCPGRSVSACQW GPEGPF
26299	56667	A	26446	1	383	NTGLGRGKAMTPSMSCRISMI. LQRPGGVLVGWDPDAAHPVGT *RHSVAQHN*MPW*GAEGMGQ PC*WHGMGTSDGPGLSDSERPE LS/HADSEGRVSKAKQSELAGP GQKR*GQKPPKGYRFQERTQR
26300	56668	B	26447	430	540	
26301	56669	A	26448	111	591	PGAPSSHSGPRLLAWEPIVLAP VASLGLGEAEDCSFLGRKAGV GPRHPR/ARRVHSGSGSRETCRG *QEPRPMLREPVCSAFLRTVKK LSGRVFPPLAVKQVLSAAPAVP ALLRTAPKTPWDGPESAESQPP SLGPAVVLDISDRRKQETIKAT GGPGRLRR

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26302	56670	A	26449	1041	1410	QEERGKVEE*ELEGRRREEKRR GRGRRSGLEEGRRRRRRGGG DETKDKR*RKRGGRKEKKEE RRRRRRGGGAAKKEEEDRLP TRAFSCVEQQSASKSPLVELHP GPIPQGPPLAAAGAC
26303	56671	A	26450	288	424	KRPAEGAPNP*GRPGIRPQA*K RPAEGAPNPRGPRRKEGRSGAK GSLDTGDGGEAWWAGSPHPS WP
26304	56672	A	26451	111	540	LPLALSNPKEVVSGRGGQVDS QAGLTMTGRAVCCLQLCLNAS GAGDAEAMSAGPPGPGPARAD TEQLPSPSLPQVS*HWRGSASTS ATRTWPLRRRCSSMARSTCRAS ASASAGPWPWPGAPVPWRHSA EPSCSQLPGPSA
26305	56673	B	26452	57	558	
26306	56674	A	26453	804	1524	ARETSHGDFLHFPLIWLFLSLKG NVPAARINIMNWNQGLISHVGE GNVNRKHDVIGFNFPWNCLFN VSDLVTMIGSPQRNHFGLVM VLTGIHTFHRHVGHCRCPWS NQASHQKGDDLEHEQNPTNNA QLLGAHVFYNCPRPFLRPPFFFS P*NKCFRGELFAPSSHHSFLA SFLGAAKLQRCWSAARMGPGR KAPARIPPAQPARVPPMPGAVI VAAPPPVDAPIVRICVHVCLHH
26307	56675	A	26454	2	330	SCSRSGTALGVPVLGAPVRSAL TYLPAHSAGQRHQHDAGPTRG LGAI*DLPPVVTPEQPSPCRQ DQVPIVAAGE/PRCAPSLGSPPG LE/PVSLSSMSPPRPPSCPLSG
26308	56676	B	26455	1	969	
26309	56677	A	26456	43	568	RSRLVFPLYFHASQGPGTASRE VPGGWAAGPVAQRINGICLLH STGPEAPSTMPPPTRLCGGPCGP ALPFSSQLAARGNPRSLPAAQL RALLSKISPPVVTPEQPSPCRQ QDQGADCGKQVNKMCSQAWG SPPGLELCPCHQ*AGPPRPPSCP LSG*FVLRTGAPGAAPPSGTV
26310	56678	A	26457	1	456	HEDAASSFQADVSLGNDAAVP LSGRGGINTYIPLIIPGFYPTAA TTAAAFRGAHLRGRGRTVYGA VRAVPPTAIPAY\PGVDMQPTD MHSLLLQPQPPLLQLQLPLTVT VMAGCTQPTPTMPLPLPLAME LALWRVYTEVATADLPTEVT

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26311	56679	A	26458	609	1031	VCKSYPGHQGSSCLPDGQIQLW LHGYGQEFQCGQETHPFLDG*RG AESL*GHNSGHDQWCLGDGCC WGWLLTYERHEQLPAELEAPG GWGKDGDSTRGTESTC*EAGAG AGPAHPAPPAPAAEGEPDLFQL PGQGCSRIPCG
26312	56680	A	26459	1	393	
26313	56681	A	26460	357	843	QTEGGAQTDGQQSQTSSENSE SKSTPEDNKCIG*KPDHK*TFLF YQEISISI*RCACFPFRCMQGF GFVTFEKCNCMFNPVHVHFPAL FSPCYDMH*SSLSSNLKCLPSI VVTVHLLLNAS*NFCILGLPL VPGFPYPTAATTA AFRGAHLR VFV
26314	56682	A	26461	3	1172	GRAHGEAAADGGGGMQNEPL TPGYHGFAPARDSQGNQEPTTTP DAMVQPFPTTIPFPPP*NGIPTEY GVPHTQDYAGQTG\EHNLTLTY GSTQAHGEQS\SNPSTQNGSLT QTEGGAQTDGQQSQTSSENSE ESKSYPRNGLHVSYYFLSGFRD P\DFRQMFG\QFGKILDVGIIFN* RGSKVNNATARVMTNKKMVT PYANGWKLSPVVGAVYGPELY AASS\FQADVSLGNDAAVPLSG RGGINTYIPLIIPGFPYPTAATTA AAFRGAHLRGRGRTVYGAVRA VPPTAIPAYPGV/DLPGTDFTVL TSMVDMQPTDMHSLLLQPQPP LLQPLQPLTVTVMAGCTQPTPT MPLPLPLAMELALWRVYTEVA TADLPPTTEVTVKPLQMGPSS
26315	56683	A	26462	1196	1459	KQCQRRCLETEVWKLKSLQIST KASNRQDRSTFSAPPRKSQLM W*TSLLSYFQKLPQSPQPSATT ALISQQPSTLNPQPWPGSCPGG
26316	56684	A	26463	2234	2702	MLFIAAMAPPSLSSDAAMTTGI SSCLPSTACRRAFGTKSIG*GPTI PESSRWQKGGVSGDGRSSCR RAVAPLEPVPRAPAA\ARPRPP SHGRDPPPGDPPLRTPASAM DKSAGTSCRLSPLKALGSARAE QTMGRPAAERSYPLLRAQYSSR
26317	56685	A	26464	70	398	MLFIAAMAPPSLSSDAAMTTGI SSCLPSTACRRAFGTKSIG*GPTI PESSRWQKGGVSGDGRSSCR RAVAPLEPVPRAPAA\ARPRPP SHGRDPPPGDPPLRTPAS

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26318	56686	B	26465	18	123	
26319	56687	A	26466	19	347	
26320	56688	A	26467	3	746	SRKLLSKSVP*LNP*SR
26321	56689	A	26468	1705	2031	CDAPGDPQPGLRDISWLGTDDR SASPQRLAAAALTAGNGRRCSS GPRRRPPP*PLARPRQRQPPER QPVVWPPAFPARWAEHTCPLA PWQPRSPTTPSQPAAVTARAS
26322	56690	A	26469	1	420	
26323	56691	A	26470	65	330	RDCEARCARGPFWWSLSPRRK GKRQKSQLISQRLERHFLSGKN RQKRPSKMAGPDGAAPLEPGA VAAPMGPKSSRGSPGRAGKAA ETS*SPGRAGKAAETS
26324	56692	A	26471	327	981	ASYQKFFQLLPDCNLAPSPHPQ VPATPSTSWGHLKPPGAFRKR HSSSRCPKAGHQWGGGQRNTP TAAHFRRLSAGSLQLCPQLRVS PLTTGSLPPRSREPPRTAPPSPY PNCRLPKSTRTPSVGWSGPPSC GTRLQSHPQEAPAG*GSVRRPF LGP*RMPS*ALL*KHTGGL*GPP HPPMPTMCQPKQASKLQLLNC PQPSPSQGAGATMGNVG
26325	56693	A	26472	336	923	LKNIFLSLPRNIRFATLLDTPG VENLVIACLQKHS*PYF*GS*NI CLSFQDGTLYHKMHAVCLKCL *KPSLLSLL*DIEYIRSHYNIEDFI YFSHHQREEHGHMHFALNPIF RHYTKFFLKVYL*SCTQTSVLS LSDILSPKI*IAVFQFQNPYAHS TSALHYLVPVRPRLPGLDDQC PGHNTFPVVSIN
26326	56694	A	26473	97	298	DNLTLPLRLECGGMIMAHCSLN LTFSSDPAASAS*VAGTTGT*H HAWIFVFLCNWLRNRGVTVKK RS

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26327	56695	A	26474	1958	3269	KFTMSILKIHARELFDSEGNPTV EVDLFTSEGLFRAAVPSGASTGI YEVLELQDNDKTRYMGKGVSK PVEPINKTIAPVLVSKKLVNTEQ EKIDKLMIEMDGTENKSKFGAN AILGVSLAACKASAVEKGVPLY HHIADLSGNSKVILPVPVFNVIN GSSHAVTKLAMQEFMVLPVGA ANFREAMPIGAENVYHSLKNVIK EKYGKDATGVGDGGAFAPNIL ENKEGLELLKTAIGKAGYTDK VIVSMDVEASEFFRSGKYDLEF KFLDDPTRYISPDCLADLYKSFI KNYPVVSTEDPFDQDDWGAW QKFTASAGIQVVEDDLRVNPK RTASAVNEKKCNCLLLKVNQIR SVTESLQACKLAQANGWCV VPHHSGETENTFITDLVVGL*PG QLKTGAPC*SERLAKYNQLLRI EEELGSKAKFAGRNFRNPPAK
26328	56696	A	26475	2	684	HSGSSLLHFPILLINRKGFSPTG MISLMCNRIVLSTHAKLQSCTP SNLPSQLPIGLSMSTPTKYRKLS FPGKTSQNITVPDSIVSPTFKETL EFISKGGSSCIVSPGPA*SLSNA VSSSSMSSLSNATNTPQSSSH* KSCFPWYTPSVKP*PRPSSSNST PKNIPETVLSANRGLKRTTPG NFSSPDLSCTFTGQPPSIWRPLL KLVSFGKQAEPLLTIGNCQK
26329	56697	A	26476	1284	2339	APPSARGACAASRRAAVPALPT PPSVCSGSHMSTYWPAAPR**T PGSSTAASPSAASRAPRAASPV LTASPPLPAASPSAASHAPPAA SPVLTASPPLPAASPSAASPAP PAASPVLTASPPLPAASPALAAS PVHTASPPVHVASPPVHTASPP VHVASPPVHTASPHVHVASPPV HTASPHVHVASPPVHTASPPVH VASPPVHVASPPVHIASPPVHT ASPHVHVASPPVHTASPPVHVA SPPVHTASPHVHVASPPVHTAS PPVHTASPPVHVASPPVHVAYP PVHVASPPVHVASPPVHVASPP VSCSGDSTSDCFPPQPGAVFPHS LAPSLGGWSHLVAALP

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26330	56698	A	26477	131	544	TGRPLRPLKTQEIPSGCGVMG RATPGTSGLGDSVRRVRGAIPA PRSSLGRGFTCV*LTTGAQLAPS LVPAAPRLPAALMDIQPEPLAS AAPAATGPAQVTAATPLTTASA TPLTTETACSLGSSAASPLAPRA HCV
26331	56699	A	26478	1440	1877	PFQNLFQRNERTSCLCCLCMGA TWASLRALCCSPSP*HGWISW WWSTPTPFANGSVTSCSALTRS RWRPTWSEASGLWHAPAALL WKLRLPTPCFRSPISLSDLDLTS HHQQGAPTMTHTCLGVGSSSWE LQAFVLSYWFSPHLC
26332	56700	A	26479	56	345	ITWHLGLMMLSRSLGL*SGISFI NFPMK*EMIPY*KLS*IQNLFQF PKVRPKGSQFGQVKH
26333	56701	A	26480	392	634	
26334	56702	A	26481	416	601	FLITDPRIWKASSDPSAKLFTFP SGFLM*AGTWMKLETIVLSKLT QEQTCKHCMFSLISGS
26335	56703	C	26482	34	279	
26336	56704	A	26483	173	307	
26337	56705	A	26484	196	527	SAVAAACSRPEEDAMELVLVF LCSLLAPMVLASAAEKEKEMD PFHYDYQTLRIGGLVFAVVLF VGILLILSRCKCSFNQKPSGPR R*GSPGGRTSSPPMQKPKAE
26338	56706	A	26485	597	797	PSENELKALGYTSSAWKRFSEQ QWGLSLGSSAPSWRLPW*GDW ELPGEPGGDSSHRPFPGPIRAP
26339	56707	A	26486	3	184	
26340	56708	A	26487	256	635	GCVAPQIREQHAQSTENAAKPT RRIHSRQSEKPGRWRHGWRAG GWRRSKRAPARHRPRCPAVCP RDGEDCSREAAGA*GLSGSSAC PTSSTGASCCFCVPGQLNSVGF AVLGSKVLWTPGESPFQC
26341	56709	A	26488	1	378	
26342	56710	A	26489	1	571	

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26343	56711	A	26490	105	849	RRQDSGQSPAWPAGALLTLLT HCAVPGSWAQSVLTQAPSASG TPGQRTVISCSSSSNIGNNPVN WYQQLPGTAPKLLIYRNNQRPS GVPDRFSGSKSGTSASLAISGLQ SEDEAQYYCAA WDDSLNGSYV FGTGTKVTVLGQPKANPTVTLF PPSSEELQANKATLVCLISDFYP GAVTVAWKADGSPVKAG\ VET NKPSKQSNNKYAASSYLSLTPE QWKSHRSYSCQVTHEGSTVEK TVAPTECS
26344	56712	A	26491	129	1191	RSRPQCLGPQGRRTISCTGSSS DIGAGYDVHWYQQLPGTAPKL LIFRNSNRPSGVPDRFSGSKSGT SASLGHHWGS RVEDEADYYLP VPIDSSLSGSTVLQARGELRQEP TSSSARRSMKKGRDLGEAQLQ LRVEKTGLRTISSMAWSPLFLT LITHCAGSWAQSVLTQPPSVSE APRQRTVISCSSSSNIGNNAVN WYQQLPGKAPKLLIYDDLLPS GVSDRFSGSKSGTSASLAISGLQ SEDEADYYCAA WDDSLNGYVF GAGTKVTVLGQPKAAPSATLF WPSFEDASDDEAEL*CAIRDYY PKAVMVA*KTNITPLKQKQDTP SPSLLTPSSDEVKSYKNLLPGFP
26345	56713	A	26492	283	840	TLPAGFTDVISIHKGTENFCLIC GINGRFAVHCITLEEAKYKLCK VRKIWFHDAHTIHYLDSFVKVN DTV*TGKITDFIKFDTGNLGRIG VITNRKKHRGSFDVVHVKDAN GNRFAPWLSNIFVTGKCNKPWI SLPRGKGIRLTIAFHSDKWFCSD ISVQNLCKRFSQGD TGKNSEA RRCSNLQV
26346	56714	A	26493	1	843	MARGPKKHLKRVAAPKHWML DKLTGVFAPRPSTGPHKWRECL PFIIFLRNRLKYALTGDEVKKIC MQRFIKIDGQVR\TDITYPAGFM DVISIDKTGENFRLI*LTPKGSAF A\HRTPEEGQVQSCAK**RYI VGTKRNPFI*VTHDAR\TIR\YPR NPLIQGEMDTPFQIEFKKTWPR LT*FPSKVPNTG*PCVMVTWRC LTLGRI\GVITNRERHP\GSFNV VHVKD\ANVNRFA\TRLSNIFVI GKGN\KPWISLPRGKGIRLTIAE ERDKRLAAKQSSG

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26347	56715	A	26494	375	1327	QPYFPMETVMTLEGGQKPVME SYTLHYLPCLLCLPWRNPESSE WQRQLLDFPLASAPGSGLTQH MAAPKSGQNLEAKPKGQASLV LSSRKICGVLSGACAACPGGPA R*VDP AIPFLAGEAGLEGRPRP QRCAAKWQSRDLIPGLPGSTGL PFPPY/PPCSPGALLSQSPQAAG SLLARTPHAQGCPPRLRPARIL PWPASSARRYTPQPSRKGTQRT PLFSLNLETTTASYSLDFLLTA PEGFSPLFTASQEHDQNQQEHD FLLQDEGLRSPVKTRARLPLGL HGDKVEKAGPWSLGARES NLC SATSQRSAVAAGVPRAQPLPPK GKGWLDPPTWQGRDRTQRTL SIHHRFYGYSGARGWGPLALLQ GFVRSLELPCAGSDQNRGQRLK GNPGAFAIPKTLDFSKAGKED KGGNGVCTTPSQAFDPLPRSSQ SPLGNMAVSGSSSSGSKSSGT QEKKSLNQKRKVDEAEKKEEK EKKKEPEPNFQLLDNPARVMP AQLKVLTPETCRYQPFKPLSI GGIILKDTSEDIEELVEPVAAH GPKIEEEEQEPEPPEPFEYIDD
26348	56716	B	26495	1919	2074	
26349	56717	A	26496	179	431	PPTSLIRVSCTSTSTSLCTSWLCS SLSWLYSWAGPFFSGKMTASC RGSGQINREIVLMLLLRS*VFVV ISPLEGGSETSPFMDL
26350	56718	A	26497	37	199	DGLPGLALGLDAQASWSASVV TGHRPPAPPGLALGGCHGPAAP P*SGPAGSPCH
26351	56719	A	26498	3	224	TGHRPPAPPGLALGGCHGPAAP P*SGPAGSPCH*TAPRGAGTPLP GSRRTGTSPWPHPPGLPHIPDVT GGHRH
26352	56720	A	26499	151	403	MPRHRRSASVVTGHRPPAPPGL ALGGCHGPAAPP*SGPAGSPCH *TAPRGAGTPLPGSRRTGTSPW PHPPGLPHIPDVTGGHRH

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26353	56721	A	26500	1	465	VSPKLLPSYASRPYLVPNALSSP SVPPALSASSAPPRPATRRRPPP RGLSASWPLRRRSRQDAGAGS RRLRERQNRGRRRSDLAPTGA GLRRDRPGRQPRPGKALAPFAV PRPRTNFRGRS*KSGSQRTTRTPP RREICRTHSRDRPRKLVGRGT ANGARALPGRGWRPGRSRRSP APSVGARSERRRPRFWRLRRR EPAPASCRLRLLSGHEADRPRG GGLRRVAGRGGAEAEASAGGT LGDERALGTR
26354	56722	A	26501	1	1344	
26355	56723	A	26502	548	689	LGKFAPGLTASKAEATAAELCL KYPLEICTFL*GCVVCVCVCVCV CVL
26356	56724	A	26503	154	476	TLA*AAAASTSCSPRPPPPSPAS TTTRWRAPWRTR*EPPELCTG MRSWPSGMTACTQTPSTAPPSP HPPSLSDSSALCSSASVRRMWI MKRLKPSMMHVLCMTVDL
26357	56725	A	26504	920	1420	TLA*AAAASTSCSPRPPPPSPAS TTTRWRAPWRTR*EPPELCTG MRSWPSGMTACTQTPSTAPPSP HPPSLSDSSALCSSASVRRMWI MKRLKPSMMHVLCMTVDL*LI PTSTPTT*PSELLAPSPNSPIDTT QMSGTLATSVPKKLAFSWQQL CYISLIQPLSL
26358	56726	A	26505	1118	1403	AGWDPSFLISFSGLSNAISSSSSS LSSQ*ESNASA*YSSATSGSSGIS WYPRSDVASSTIDSSSWRSMEG IG*DSGRFSKVGSSDSSSLPCHL SS
26359	56727	C	26506	29	379	
26360	56728	A	26507	3	948	GVSLCCPGWSAVVGSWLTAAS TFRAQAILSSSWAYREPPVRVG RRQPPLLLTRAQGRVISSSRFH LHDFVWRTAGKESTSGANETG PLPERGRPPGGRGPGSRSPRSH AVQREGAAGSVPAAGRDGGRA GHDVPHEGQRAEAAAGEAGGE FPLLLSDRRGRARRSPAAGALQ SRPGRARHLLHQLH*GP*EEVS L*VQQRGAVSGVDGGSASGQL RVHAEKAHLLQERNPEG*RAK DPLGTVSALSSEARFQLRWLAG VSAGHGGQRAAGRDWPCPAM NRLAMPGSVLFWFLVFGSGFH CVAQARVQWCHSSL

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26361	56729	A	26508	31	202	ILITYIHKLINQADFSTP*FMSHI.I VSSRI LCTEKWNFHFPPHF*D*Q QTFCTLQFL
26362	56730	A	26509	471	1716	FKRGQYGQLLRPRFHHGQILYA RRQGADAAGDSDFCTEWPAAAL DSDEKCEKHFPIDSTDYVHHH GPSVRNPRARVVLRWLRLITLH ESAAVEGLAVFPPARRHREPEY SIPSPSQAFTPAVLATRVTGQLG GHTQIQNPVTAPTILGNTPTFHIL TCFRIFSLPRHLFPKDKWRTL APFLRTL L LVGTESSVHLSGIDP DLLVFEQSPTYLNTRSSSNRW RLRILKAMNLDKQTTINGMLP STEAPSSSTTHQDLVVNTNSTSY SKELTTDFWARFTSLNESITTKI NKVSPSTDFISNPDNKTISPFFEP IDTKLSHMPVPPGLNSSKQI.I.N KTKGYNSRNHTSANEDSVSVT SKTWLVSVLCTSVIFLGCCIVI LASGCCGKQQGQYKPGQRKSG SLQIKNRNHNKENS
26363	56731	A	26510	410	867	LLTLRSTPLMSLGFP GIPKMIN RPRQSSPIKLQNSSLSNLLFFQ EDSSTLDSGLERSQGLDSTGGG EDICRVWTAS*SFICLSDPQKVQ IQSAPNRKAWCLVILVVVSHSS TPFSWQKVMKWIKKISFRVFAA GQGLLGGSNPRYSFSF
26364	56732	A	26511	135	756	VITILTPMLADRTTRRIERPP'KKK GTTSLGQRKWLLTQDWPSVYP VA\HPFKPSAVPLPVPNGLSSK KRACPWQ*EGN\LELLKINP'F'S GF*LPVGN*KSTCEALKDF/CAL SGPAALGQWTRKC*GR/PFSI*I* QH*LWFHQDHPVRNPRARVSS LKSKAFSV*I*HDHAKKTLITI.V GERYCKTPDVLTIKQNRWPLRS QITIMPVYL

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26365	56733	A	26512	161	2150	YLDAEKMGGKASQQALAKDSK EVPVVCEVVSEAIHVHAAQKLKE YLGFEYPPSKLCPAANTLNEIFL IHFITFCQEKGVDEWLTTTKMT KHQAFLFGADWIWTFWGSNKQ IKLQLAVQTLQMSSPPPVESKP CDLSNPESRVEESSWKKSRFDK LEEFNCNLIGEDCLGLFIIFGMPG KPKDIRGVVLDVSKSQMVRSH LPGGKAVAQFVLETEDCVFIKE LLRNCLSKKDGLREGGASPGSL RLAAPGPPLTLNAAACPLRLAVL AAMAAAAALPAWLSLQSRARTL RAFSTAVYSATPVPTPSLRVDD LHLTEIVGMLDSVLTPESSGK YRFISGEVLCRITGCFTGVRVEA KDLFGGCCSNPNEVMVTWIKVI VEKEVWLYLRYILKALPPRTEK MAVDQDWPSVYPVAAPFKPSA VPLPVRMGYPVKKGVPMKEG NLELLKIPNFLHLTPVAIKKHCE ALKDFCTEWPAAALDSDEKCEK HFPIEIDSTDYVSSGPSVRNPRA RVVVLRVKLSSLNLDHAKKK LIKLVGERYCKTTDVLTIKTDR CPLRRQNYDYAVYLLTVLYHE SWEYWKEWGKK*D*SRHGKSI YGENSSSERKYPGKRFSR*KLL RKNMGN*LKKSSLGTKEIEEYK KSVVSLKNEEENENSISQYKES
26366	56734	A	26513	3	1186	PASTMSIRVTQKSYKVSTSGPW FFSSCSYLSGPSAHISLSFSRAG SSSFQGGGLGRGYGGASGMEVIT AVMVNQSLSPFIDKVQFLEQQ NKMLENKWSLLQQQKMAQSN LDNMFESYINNLRWQLETGR KKLKLEAELGNMQGLVEDFKN KYEDEINKYTEMENEFVLIKKD VDEAYMNKVELEYRLEGPTDEI NFLRKLYEQEIRELQSQILDMS VVLSDMNSHSLDMSIIAEVKV QYEEIANRSWAEAERMYQN*Y AKLSQLEAALQRAKQDMALQL HEYQELMNFKLAQDIVITTYRK LLESEGSWLESGMQSMSIHMK TTSGYAGSLSSAYGGLTSPSL YSLGSSFGSGAGSSSFHTSSTR AAVVKKIEAQNGKLVSKSSDV
26367	56735	B	26514	361	1215	

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26368	56736	A	26515	230	561	VRTRHLFCEAAAEETPVFTMA NEKPTEEVKTENNNHINLK VAG QDGSVVQFKIKRQTPLSKLMK AYCEPRGLSVKQIRFRFGGQPIS GTQRNLS*KKESVDAASFIVVL
26369	56737	A	26516	1242	1415	NSPSDSSLVWAWRRPQSRWS ERGGGANNRGGGRLLGNSVFG RK*LPHRRVSRVPNTK
26370	56738	B	26517	1	585	
26371	56739	B	26518	258	1081	
26372	56740	A	26519	42	275	TFAWSEEGTSPPSIQSSWDPRCP HRNTPAQTGKPPKRAWPRHPV HH*EPHGDQQDDGPAVSPP*SY SQYPWPEGLDV
26373	56741	A	26520	646	1905	
26374	56742	A	26521	6510	7361	
26375	56743	A	26522	1	879	DCQDKVPRRKEPSMCSGLLRV KSWVSLQTYWKPRATQGVYV LPLTEERMVVLGASRVGKSSIV SRFLNGRFEDQYPTIEDFHRK VYNIRGDMYQLDILDTSGNHPF PAMRRLSILTGEAHWCLGWGG RARAWVRSVLGT*QILEVKSCL KNKTKEAAELPMVICGNKNDH GELCRQVPTTEAELLVSGDENC AYFEVSAKKNTNVDEMFYVLF SMAKLPHEMSPALHRKISVQY GDAFHPRPFCMRRVKEMDAYG MVSPFARRPSVNSDLKYIKAKV LREGQARERDKCTIQ
26376	56744	A	26523	2	478	
26377	56745	A	26524	120	1167	GHVGHMCTGQHMASAYVGRV NVL RKEVD RACFGEKAKQ*VG S*EELWAIWGQGREVCLGIEEA GAIISTRHCNSQNGVRVWAPYL WALEAAPV*VQDRSSPGSQACS LPSPCALTMGTGIMPLYQEAK WKPRQRPGTSGGTVSSEPHC*D AGSGCWLCQPGLREVAHVSAE ITYTSKHSVEVQVNVMSENILT GTSGSDSVDWSSKGRGYTAAS LLRAEDAPGPGPKVLEVPPVVV RCPFYFSLGGRWQRSGLT*LE TKWRNGDIVQPVLPNGKSRGH QQQVPLLTGDA*EAGALHGFV HGGKKEAPWPLHSCPLAHCCFS GRYNRPGAVAHACNPSTLGDG
26378	56746	A	26525	225	438	
26379	56747	A	26526	216	364	

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26380	56748	A	26527	2	397	SCCSDWSAMA*SQLTAISASWV QAMLLPRRPE*LGGSNPEGTG* SERRLCHYA/HSLGDRARIHLH KKGRQEGSKEMSRAQTRRVW HATMETEQKQNYGRL*CCSPST NTRRRTSMRKNKAIAREIERY S KGI
26381	56749	A	26528	312	1061	QQTLYSFGVSFYFSSYCLIFSIG CSSSSICRRARLYHWAAPFRPP GRKRRDCTGQRKTSAGEPEIPP PLHHHHHHYSHHHHRHRHHH HHHHGLQRSSKNFLLWPE*ILF CGSRRLGRAALFLLRSFSHPAK QGAESLLGKQS*KHLASTQCGP RGRGS*EKWPRAQLGRKQPSIES AAGAAGLAHGPQDSLVIERAG EK*SGLRGEGNRPFGGSSSLGG HPLLQRSPAESSPAGTGVRTSH LEGRPASFR
26382	56750	A	26529	161	453	SSSLPCSPSSCPHTSFFLDARQEP RTCRVVGLKEL*QKQGLPHCR* QEREKSCSPSGSPDLGAPQPRA VTPSLGLCSSWHLQASRRHCTP RCPQWKR
26383	56751	A	26530	301	630	RWKPKIRGSEGSAS*PQGR*LLP SGRRGATGSAESTLPKAESSAG DGPVPYSQGSSSLIMPRPNSVA ATSSTKLEDLSYLDGQRNAPLR TSIRLPWHNTAGGRAQEVKA
26384	56752	A	26531	1	1394	
26385	56753	A	26532	240	1150	LLLHVPSPPSPASTGPPSCGPCWP PRSAPAAAGRGSSSGCLAGEDPA TTHKSAGTGECHRGVPVGHCGQ AHTGPSYPSGPPASCGPAASAV TRGQSCRSLTFRPGRHQIPGAE* QLPRGQGETGRTGLGHYLTLLS CSSRWPLPKSGDGSPSRWEYRD S*ERPGRRTAPRCCSRSTGLGD GLKKFPSSY*GP*KCAPSGCGG QAPWSAGGSTCPPDART*MPR ARARSWAHTGRPCFPRLSIQA TP*RTGGRTCGFCLAS**GSRRG RPSSAESLPIAPPGCCQH**PER SARLSWGGGMGRGPR
26386	56754	A	26533	1463	1627	

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26387	56755	A	26534	1	1758	MHKYVRYSTVHNSEDMESTQ MSINDRLDKENIIHHRGILCSH KKKQDHVLCCKNIGEAGNHYPQ QRNTGTEKQIQCVLTYSKWLN NKNTWTQSEEQYAVGPVGGRI GRLTNNRHTQDSESWVRGVTA FWSRGANNALDIPAFIIFSEGR GSLHTHDGPPGPTSSLKLSFSHS FDSTGLCRPHDLVLGLIPTMVN ITSQLDWLEDAQMAGEALFLE GKLTTRKDIYTENPSLHHHHQR PKVDKTTKMGKKQNRKTGNS KTQSASPPPKERSSSPATEQSW MENDFDELREEGFRRSNYSEL EDIQTKGKEVENFEKNLEECITR ITNTEKCLKELMELKTKARELR EECRSLRSRCDQLEERVSAMED EMNEMKREGKFRDKRIKRNEQ SLQEIWDYVKRPNRLIGVPES DVENGTKLENTLQDIIQENFPN LARQANVQIQEIQRTPQRYSSR RATPRHIVRFTKVEMKEKMLR AAREKGRVTLKGKPIRLTADLS AETLQARR/DVGANIQHS*RKE FSTQNFISSQTKLHK*RRNKILY RQANAERFCHHQACPKRAPEG SAKHGKEQPVPAAPAAKSCQNV
26388	56756	A	26535	620	886	INGVILSKPPLPISTTPIAGALL PLTKEQRGDF*KPSRNMRTSCW KTPESRANFLKFRPRSHCLTRM GSSCLLPSTCLSSSSTFHH
26389	56757	A	26536	237	415	RCLQRPSAGTAGHPPSAGRPP AAGLAG*RARHRSDLPGSAASS QESWCLRAALPEAPA
26390	56758	A	26537	373	691	
26391	56759	A	26538	2	233	
26392	56760	A	26539	5	68	ALQWEEKHEL*EQSLHRKPGG
26393	56761	A	26540	184	434	GRRGCTVGEAAVTQSLSLCS HEGRAIRHQDASIVLLDQ*Y TRHPVLDKLLAWI*ALAEDKAT LGSAAAEWKITPAFSFP
26394	56762	A	26541	466	683	GRPHSLPHPHADSELTTDCS* WRWIFKHKTDIRHQRVHTGQ KPFKC*Q*GKAFRHSFDVTKHQ RTDAVGLHQTCCLGGVLLWGA HWRGHPSYSLWSAHCCQHGG GASGGGLSLHLDRLSLDAAGRP QPVLPPTGQNILVGPLPQISLCS RSLCVLRDLGLSQLSPGEEGSH SQKWTSQEVKLFRRSRHQSTSDV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
26395	56763	A	26542	194	558	GCDRPSRPRPGAPRPPAATASC PPRSCWPLVSPHCP*PCRKRRY PGERRTSPAPPVPPGPRPAG*T PPCELRPSSTHVALLGLALPGSE GTGLRTSVRARDRLHRRTRERA AAGTAPGP
26396	56764	A	26543	1	248	MVAIHNAADDAKCWGDVEQLE LSFTAALPVLPHPSLPGERPLQE AVAFLCWLLVDVLLKATVSKV GGGSALASVARVMKAQAFSPL LRILHKASTSSFRARKDSAHTPS CLLTPSGPERAGPLTQDSCQPSP HDSFRAPALLEPSSALSTAVASL RRREERLEPEQRVGELGSLGER QHEPSDNHDFQPKSKQEQLQK TLQPSGGPHCSSLLLMVFWWK QWRKTEPLKAERTGYKEKEIST KCSSSPSGQLSQSSAAGPAWPE DARPEATWSATLLSFDPRCKND SIEEPCSVHISCTAYS DPLKIHNS YRECGLCPEVNLEVADPSSSR ELWFRAGAQQAGAMQGVTEL RPPEFVKSRKPQVSGHMGNC LSKGRFLGHCQYKQGLPQRH QLQAEERESGMRHTTGGAYAV LTTGVSPWWIWIWERRWPCAF PGKNEEPAGKVPFSELVLTQ RC**CQMLGGCGAIGALIHCCS ACAASPFSPWRKAPPRGCCFSL LASGRCAPEGNCLKGRRQRT CQCGSGYESTGF
26397	56765	A	26544	423	621	LPSRGAGLGTCSPCLSLPSPPW APVRPEPPR*SPPAPQRPVSTT QGLNCAGAGHGTGRQLHR
26398	56766	A	26545	1162	2027	MTPEPEWSLS*VGNYKRTVKRI DDGHRCLCSDL MNCLHERARGV SRADPTMAGAE*PAASLPCTGP QYGTVEKAWMAFMSEAERVS ELHLEV KASLMNDDFEKIKNW QKEAFHKQMMGGFKETKEAE DGFRKAQKPWAKKLKE
26399	56767	A	26546	1	504	

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26400	56768	A	26547	3	1215	QTMVFLTPILVAILCILVVWIFK NADRSMEKKKGEPRTAEARP WVDEDLKDSSDLHQAGAGGN AVEGVDSKVNGRATGFASKL DIGKRRREGELETGSYPKTHA YALKKSGPWNPGTWQHRKIVR GLQFYTVFFPHSSVLAFLAPVID PSVASSSSLRSTTDNELAELSE FADADEWQESEENVEHIPFSHN HYPEKEMVKRSQEFYELLNKR RSVRFISNEQVPMEVIDNVIRVT GTAPSGAHTPEWTFVVVKDPD VKHKIRKIIEEEEINMYMKRMG HRWVTDLKLHRTNWIKEYLDT APILILIFKQVHGFAANGKKKV HYYNEISVSIACGILLAVF*NAG LVTVTTPNLNCGPRLRVLLGRP AHEKLLMLLPVGYPSKEATVP DLKRKPLDQIMV
26401	56769	A	26548	3	263	RPGEMACKYPLRCSGARVERL AKKKAHACLLWTATIKVITNSV KLRRSS*GNRLKPSILC*DMKA LRQYPMPLRAWLLPMVVWVM
26402	56770	A	26549	82	318	SGEAGKEEGTRMVIRPEPKRS LLWTATIKVITNSVKLRRSS*GN RLKPSILC*DMKALRQYPMPLR AWLLPMVVRVMV
26403	56771	A	26550	91	714	SESLVLVWCGRVSCVLFCVCD VCVLVGGSGVAVRCFGGRGCG PRRVGRRWSCWCGWCGAVLIR RVCLAVMFGLALCVHPLLYPR TLLLRGQKVDRFKNLSSGESL VTLVIFPAHGLARSFLNLDVL FGVHFIAVEFWHAVGLIVNKQ VKGKILAKRINALIEHIKHSKSQ DSFLHCANEQRQT*QCAGPCM GPEPRQACLNTCIRS
26404	56772	A	26551	29	363	FAKMTNTKGKRRGTRYMFSRP FRKHGVVPLATYMRIYKKGDI VDIKGMGTVQKGMPhKCYHG KTGRVYNVTQHAVGIVVNKQV KGKILAKRINVRIEHIKHSKS DSFLKR

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26405	56773	A	26552	186	512	FHLSKHRAPPYPVTAPPRTSWG SLVKQVNESNGSRLLRTSLVHE DLEGVSVVSGMNCDSALARYII ILETLIIYLISPRCWIIDSSGACSG LAMYLP LLGDDGVLLCTPNFM AWRSNRTQFMMRSSH MV DAS PRGRHMSPREEA FGYS SRASHM LLSLLAPPWPQLMGRGLGCQQ QERPQECVPLGMTRSPYSEIHF GSSRALGSSPGSCAHEVLGPSIL TVNPFIPGSSVHVWPSNGNETN KLPHTRAGSCGSATCSVKRWG PQKPRPLPKPPLVPQALLLV RG PAAAREEA VQPPKEEVTQRPGG HSSPGVFAHLKGPRSVVEIRME YGEE*PPGRCVTSSFGGWTASS LAAAGPLTSRRAWGTSGGFGR GRGFWGPQRLTEQVAEPQDPA LVCGSLLVSLPLLGTCTEDPGI KGFTVRMLGPKT SWAQDPGED PRAREEPK WISL
26406	56774	A	26553	1	382	FRTSCRQLSAAPPPARSPLRPPG GG/EPAPGRTSRGHRPQM*SGT PAPRPPARSTVSPASPLPKPRAG RCGSRPRSACSTFRPC*SLASVS SAKTQGWKMWQPATERLQHF QTMLKSKLNVLT LKKEPLPAVI FHEPEAIELCTTTPLMKTRTHSG CKV
26407	56775	A	26554	797	1213	AWLKFLLGTRRFLRFSKYFSID SARSLVPGRWPAPGRTSRGHRP QM*SGTPAPRPPARSTVSPASPL PKPRAGRCGSRPRSACR*GAPG SRGPAFPRRTPSVTRWALGLPW LQGLRTAF CWQILSRVTAATLP DKIH
26408	56776	A	26555	1002	1655	KEFCIYNRNP NACSYGVA VGV LAFLTCLLYLALDVYFPQISSVK DRKKAVLSDIGVSGEPHPAGTP CTESTEGCPGHRRRKDNPLNEG TDAARAAIAFSFFSIFTWVSTAT AHQPTLVPPFH*APGWVVPAS AQP*ASPACRGRQPCITPGSEVA GAPSTLGGQGRHYMDPSQDSS MPYAPYVEPTGPDPA GMMGGTY QQPANTFDTEPQGYQSQGY

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26409	56777	A	26556	262	628	QHFQTPWPWPLCAAAGTSAGT SHSGSSSGAFSSWPCWTAAEPA ARKRGRPAGSWSSPATGAPGR CRHRILSRGAGGSAGFVCSGLR GIGPLGI*LSGTFPGLTAGPETPA TERAPGASQHFR
26410	56778	A	26557	1098	1599	RIRKSHHCINTVTLGRGNSLGK DFVRESPGGDRLNVGQTHKHR GLGRFAQPHGTSAGTSHCGSSS GAFSSWPCWTAAEPAARKRGR PAGSWSSPATGAPGRCRHRILS RGAGGSAGFVCSGLAESGL*ES SSPGRSQG*PQGQRHPQPNGLP APPSTSVSVLVLRISR
26411	56779	A	26558	440	698	IKLWAATFIKVCRLSFSCGMSIL *RCTGSKSCCCCRRLWAGPT SCAGGCGCCWGP GPPAELGPD TPAAEEAAEACCWDAAIFLA
26412	56780	A	26559	448	576	
26413	56781	A	26560	513	782	EIWWAWTKWCGCWVVSFCF HLCGRHC*GTCWSSETWR*MC GTSGTAPPCECWREGKDDCGR DRPMETHGCCSSFSSPRAGKD ATTGT
26414	56782	A	26561	798	1505	FLRATSPSGHHFSYHLWIWISLR SFLCNECESCCLLNSSMWQAP GLSHYSLLLIWLWLVFQTLNPR HLLHLLPSPLNVVDRLCSCQHH HHQ*CHHLHHNLH*NHSHHRH HHHQ*RLPLHYHLHQHHHHHQ NHCQQHHHRYHQHHYQHHDH HYRHHHPWLAGARALCDSND AGCPGSTGDGWRPYSADSDSL DALSFPRPLFPDCQSLRGLASA VIQGYNWLVLVTENHILFHLF

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26415	56783	A	26562	1	1073	MHATNSSSVPQEIQVEALCPLL TQPQKSPSITSAMLCQLKKPQPS RSKEREADPISCGPECQGNWDL CVEAATGLYGDGHLRDSSRTR VLMTTGTYRDLQGLEGRAGHV AELHVLVPVWAIQDRGYVLWC WTASLHPRDVAREQGFPNDCT WALGCTLTAESTHTHSAALAR QAYSQSKKPTLLNEPEHITEK KFINLARFEALNSRTWLGVLV WIAQIQDVPVTVESTTGQRAAR ISPREADRTLKVGQVQGIQRTVI MSVPGRKEGDKLKEVSDGREA ANQAGMKWGKECKSSSGTEN AMSGKEVGILQEEKGDWSHG VRGWQEKWMTYNFWACGRG KNATCRLEMTRTSENDLKHNQ EGLWHGRERAMLGDTHTLAW REEEMEQKQALRIHSLYGKTS QALGSSWWVERFMGMRSGSS DCNGLVTEG*TLQSACIPEPTCS H*GSPAP*LHP*GAEQSSTTEH SPCPGLPRQAERGAQPRVPPCP QDPADPCKFQWS
26416	56784	A	26563	1	387	MESTEIGHPIYEQFTLTKMTRKF NKEQLVLISLALLDSGHTSNSL AWPSCLIVSGVGSRWVCGLT D/CQE*SLRPSQSAGVCCRSTPD PVCLGVTRGGCRTEKIAACSFL WKLPRGAPARCQPELSCM
26417	56785	A	26564	47	472	LLRLHFWQEERLKPSRKKITKK HTKKRTASLILHAMICCRSLNSS KTKNTKCLNSINQRLKILSLQK GDPLESTCRH*CCHVHRRTKAP GQRRVGRQHVVSAAGNHRHPHK GDPLESTCRHATVTGQGLLEFA GGPLQTLFA
26418	56786	A	26565	329	615	TKTEIGTRSINELRQQLFATTNT FFFPSIFGESNTTSTSLTKNSAI WCPTGTKLPEGRTGSNLCCSAA SAGDTQANRVWSGPSAN/C*QT CRRRSC

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26419	56787	A	26566	525	716	PTCLLTPPSKGRQTPYATGELR LASDGCPSGTLPEEGAGSNTQ ANRVWSGPSANSSRPAEEGPDC CRTTCCRTTCWKPTTVTTCSS PCCQPACCVSSCCQPCCRPTCC VTSCCQPSCCSTPCCQPTCCGSS CCGQTSCGSSCGQSSSCAPVYC VSSCCQPSCC*SGPSSAGLLEFA EGPLQTLFAWVLLPAPSSGSFV PDGHPSDASRSSPVA
26420	56788	A	26567	3	390	EGPCKKGWCC/RSPDTML/CPT VFITCRPGDSLRLHHQGPRFQ AQN\CQPFQGTSS*LQEFFPIQ WCLECRRALAGIWQVPLWDEA SLPEEGAGSNLCCSAASTGDTQ ANRVWNGPPANSSRPAGEEAD
26421	56789	A	26568	658	1005	NSKYWTPSGPPRLASGAIYGN SLSV*AAGAPYRNAGPLQPGCF PPS*SLPNGGIHPGPGSGPHL GPDG*MVGSVQVHDNELYFC/ APAGSYPLWVKALQPPSQPFL KPVASM
26422	56790	A	26569	1149	1715	VLQLNLPGPVASWCSRDPVGPPL ARPIPPAPHTPLSSAGPSAAAP GPARQLPHPRGDSRTARLLPGQ GSS*SWR*GAWQSGCQSYRKP GLSV*AAGAPYRNAGPLQPGCF PPS*SLPNGGIHPGPGSGPHL GPDG*MVGVPSPGAGAAPEPA PGLWDPPGHCSQASTPPGACKE RETLPALPRLS
26423	56791	A	26570	32	335	LWSLFDHVVQRAVCDSRAKYR EGRPRPAVKVYTINLESQYLLI QGVPAVGVMKELVERFALYGA IEQYNALDEYPARRLY*SLSY*I YELTKCKDSQEKNG
26424	56792	A	26571	407	842	TEPLITINRLQRRRSAPVAAAG PAGTLARRAPAVTAERAAGPG PASVHRRPGWRRRAQSGPAAAQ ALRPPPPR*PRDSASPLSRKELL KLLGTHYGRLTATEAQAPQG QHKLLCRETGELVPHWAGSHY RGISNPINNIQDHIL
26425	56793	A	26572	409	614	GLPPPAVGDRQRCLPVRH*RPS QTIRAEQEPRSAAPRRPKKEG CRRSRGSSPLADNLGDLGSGGQ GG

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26426	56794	A	26573	3	266	GNHCRRQYRDAQ*WP*EAGRY SSCAGSARLGKAKG\RGPGV MGNE/MRSRRAQEFKKYLHSK TSR*KSHTGPEAELTSPGAKKE GCSQ
26427	56795	A	26574	36	384	GWYCSSLSDVCSGGNSSAHSQ LPHQPLPRLRPGGSCHPRESSSP SKQRGGPVGDRQRCLPVRH*RP SQTIRAEQEPRSAAPRKRRAKE GTRRSRGSSPHPEKLGDLGSGG QEVPR
26428	56796	A	26575	101	334	CSTSKEKWQCGLRAECSPVFPA TEVPEYSC*GRKPSHLSCHRAP TLEEAANRKWPCTQYDAIQNA CYNDLSVLRLS
26429	56797	A	26576	435	761	QGTNTWVPHWVLRLLGLHTSP PEGIAELPRSLPSLTHQACQLD CVLVAIGTAILVAQTATTSPPIC GEADAHPASTPLPPSWPPQGRQ LSC*NPPLGPWPSGRVQTP
26430	56798	A	26577	38	236	RLLPLENCCSSASGTCAHQAP LLLCSCPNC*SCCCHHCCPC GCCWHCHRPSTKGNSATFTA
26431	56799	A	26578	1316	1548	FFSITGLSSVAGGQFVNLYLKR LNSNFIYLSGYVIVYINIVFYIC I*KFVLHVTLRDCCKTIVKKH VFRLFLKAM
26432	56800	A	26579	1	272	RPVNSRLDDFVAACAAMAKIK ARDLRGKKKEELLKQLDDLKV ELSQLRVAKVTGGAASKLSKM *VRRPDHSPRGWGARVHRDRR RISKLA
26433	56801	A	26580	1	363	
26434	56802	A	26581	286	867	IYALSLGAGGAAASAGLCSNEP RFKARDLRGK\KKEELL\KQLD\ DLKGGSCPQLTRSPKVTERCGP PKLSKIR\VVRKSIC/RVFSPVIYP DFRKENLQGNSYKG\KKYKPLG PCGP*GRTRAMRPPGSNKARRE NLEGPKEAGSGKGAFTRCGK *RGSRALRGRLCQLKHKENLKT KKQQRKERLYPLRKYAVKA
26435	56803	A	26582	164	346	LHPGRRPGLTHLGVPSPGPGPT EKLAPGKPSSAACAPSPALD* HIAFGVDALCPTFGLN

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26436	56804	A	26583	316	723	LVGGWGGWLWGG LHGPLY GQA QGASPLLPPPPAHRPPPHRHST EHGVEHPLVT*TA PLSPCPLGFR LGQLALHRGASTKGLLTGGVW GLHSWPIGDGRATIHEAVVRAS PWPSRLGTIHGVRGGRDVQEG AELPAV
26437	56805	A	26584	177	418	RNPVVAQGLLCACRMFKVGNR TPSSSAEWPSFAPPKKGPLPKA TSEPLFPHPKRR/PLASVPSHREC RPPLGASKTAPRD
26438	56806	C	26585	149	277	
26439	56807	A	26586	1037	1455	EESYGLLSVPSVTGSLLLQDI.H KLGCHQFGH SKRRVSGIWMA VLPFPFRCQPHLLLLLENPRAN GPARQPTNHQPP*KAGTQLPNS VAPVQSQTGFPTPARKARAPT WPGAARPPGTASNKSPARSPCS SPSFSILP
26440	56808	A	26587	175	450	
26441	56809	A	26588	77	337	RDHEPTRRKKV RTHPNVRRNK LRTRRL*EL*HSLRGSAA SFLKE GRPWRSGGGAQRR*KYWRKG KYSGKMQSWSRVYCSLAKVRA
26442	56810	A	26589	1043	1555	ALRQGPEGARAPNMDSSVSRC QVPGPQVCRAVPTEILASPAVE RAPAAALSSTTIWMPMSLCPW RPVLA ACTSMTVRGRSTMYLP TTTGNAGCTWPKASLATRWLS SPMGRQARSLMLGAQVTLSDW RSM PWRRRGRSSGRNLSTI*WR LDWSLRRTWRS GRAWMMSGIST
26443	56811	A	26591	313	462	VCFTPEPARPRIRQTRPDRRNSE HIRT/RRRKKLRTHLNIRRNKL WTRHL
26444	56812	A	26592	630	777	KERRGREKKKKEEEKRRRGRRG GRRRKRRRRRGRGRGRGGRK* KERRGREKKKKEEEKRRRGRRG GRRRKRRRRRGRGRGRGRGRR RGSRRFL
26445	56813	A	26593	284	461	HSPGGSAA SFLKS VRRRTHIQFR TH*FHIHKNRTFTSR*SH*RM RQ WDQREV KVLFL
26446	56814	A	26594	573	968	AQRFCHSQWRCSSSRVLEENP APLDTTPLSGRSKSSGRGCLVS LGL**PPSTRRSSHL*QPSSP*AS TFLQVRMTAPSGL*PQRPA*KI RSSPLLLTKNPFPEAAAF*SRGP PVSLKDTASLQAAFLGWP

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26447	56815	A	26595	3	699	RGRSRANSPQLLLEGGADPTVG DIGHLSVGVGPVHNAVGCQP DQTTPKHLADNPGPWTLDA LT YQPHAANSCHKRGIAAS*SLMII MVIIIFLVLLFWENEVNDEAVMS TLEHLHVDYPQNDVPVPARYC NHMIIQRVIREPDHTCKKEHVFI HERPRKINGICISPKKVACQNLS AIFCFQSETKFKMTVCQLIEGTR YPACRYHYSPTGEFVLVTCDDL RPDSFLGYVK
26448	56816	A	26596	2	483	
26449	56817	A	26597	2	1041	WPQDGSCTWLAVAMGCWLAT QQGSLTRVPVATSGIQGCQAAP SPMWAAWTHGWASCYFRAAL QLPLPPGSTGNGSMSTSTAYSA SSPGFM/YTKAQGERSDHKENV FYVQHQQKYVGGATQAFAKEN NQKAYKETYGVSHITRDMLQ IPKQQQNEKYQVPQFDQSTIKNI ESAKGLDVWDSWPLQNADGT VAEYNGYHVVFALAGSPKDDAD DTSIYMFYQKVGDN SIDSWKN AGRVFKDSKFDANDPILKDQT QEWSGSATFTSDGKIRLFYTDY SGKHYGKQSLTTAQHLQQYLT YKRSFSIVVDAIIALPPLKRAAW PKSRHPPQVGLMEVQHLFPIPN NFEHV
26450	56818	A	26598	116	338	

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26451	56819	A	26599	971	2485	FISSCFVRACGTLNPGVTMFYVI LGKFCDFAEPWFPVHMQEQLR VVGKGLWGFVRVSLSGFRIHGP HOKTASLAQVHKA VLHDGRTV AVKVQHPKVRAQSSKDILLME VRALPFSFLCPQSTFMWLVDEA KKNLPLELDFLNEGRNAEKVSQ MLRHFDLFKVGGMQCRVWW SGGLMEFVDGGQVNDRDYME RNKIDVNEVRSRAQGCCAGER GVNGFVHCDPHPGNVLVVRKHP GTGKAEIVLLDHGLYQVEEAFV TQPWGLWGQSLIWTDMKRVK EYSQRLGAGDLYPLFACMLTA RSWDSVNRGISQAPVTATEVG GPSRCLFLNAEISHLLNHVPRQ MLLILKTNDLLRGIEAALGTRA SASSFLNMSRCCIRALAE*VWA PPSPLLAP*ISFSEAFNLWQINL HELILRVKGLKLADRVLALICW LFPAPLCTVHVITILLWNPLRT LWPLSQGPQAEWHSSLFFSKK TQQPTFPFLVCAIGLDVPTTSVK
26452	56820	A	26600	831	1205	RKEGQGPSVHPLGSGCFPPGHA FWEALEANTWVPCVRL*RTPV SAELLGLAPGGRWRAVNRDRG RVAAASSLGEPYSSPADASFP RSDSGGLDRQGGSCRYPKELFG SHPQARCTEGSLQVL
26453	56821	A	26601	377	962	LFSIFITQDPKLRELLDVGNIGR LEQRMITVVLKACV**LCSI*AN ASVIYIFQEWTDHLLVL*SMC HLNLSPLLCSLHSIYRNREGGS WGRKKTIC*LRCFISQND SIPQE DFTPEMQILE*NLV*KILIAWFFI VFSGAKSKPYLTVDQMMDFIN LKQRDPRLNEILYPPLKQEQQV VLIEKYEPPNNSLARK
26454	56822	A	26602	1	810	MDAKKRKLYKYASTDSPAFAI TFIIMPYMENQA AKLA FERLSL NELVFSSEALTHSETFLPQPDNR HQNMSSTIHTAPIDTALGGNPA FLYLFLQDFQPTQDNSLASVTP SAGVSARLAPPPTPGPFTDVVV LDVLDEVGQGGEVESAPESA GIGEEGGGDACHGATS RAP*Q ASPPPPSSPIPADSGAADSTSP WPTSSSTRTTTSVNGPGVGGG ARRAETPAEGVTDASELSCVG

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26455	56823	A	26603	28	457	GGIPDSTARLSILTTPRHHLQRSC SCNGTATRFSGQSYVRYRAPAA RNWHIHFYKLTLPQAILLFTN ETASVSLKGFEGCLDAVVVNEE ALDLLAPG/NDGGRLAGDTSPH PVLPPQ*LLQPEHMPQWWEVL MDPRGRLCLQMS
26456	56824	B	26604	205	1722	
26457	56825	A	26605	11	374	VSPSRSGIPGSTHASGQL*IGDR S/GPMGPPITATQ*DGDSIDAYH GLATLHALLPALPGAAGF/PSGT SEPCSSPCGQHHAAGQLGHD LPVHCSEDPRPQPPPLGGPLEDL PSLLWHSDFFI
26458	56826	A	26606	69	551	QSGRSPQHVFPSVRGSGARSRG WILVHPSQYHHNPQRIYSACGR SGEHISPGYPCS\DGHDAYDQQ ADGTHHDACIFH\PRGSPRSP\G QCCLLTGGSRSGLSGASATPG GRRGG\PAQGGEPASRNSSVEE LTARVLAPAPALASAQPTLP GFSISPSTK
26459	56827	A	26607	476	1016	CLWLLSCLYCSLGDCLWWAV SVLCQVSAPRQALCFAPGENGD GGQQGLRGAPPGPRGPAPQP GPGYPGARQRGSPQQP*LSSEP GPYLRLSRSGGR*GPGRCCSRSP PGR*PVQAGDEDGQDAGSHI*T QPRVSEEGGTDEDQWSLPQEV SASVPYQPLSHCQTPASLQPH CLFS
26460	56828	A	26609	247	342	RSIMPWLPKGSWEVSSIPP*RC LHQLWSTSRNMAL/HVRVLQT EQAVKEYNALVAQGV RVGGV FHSTC*WSLKRRINH
26461	56829	A	26610	129	272	NDTVSGLGRLESPTLMRQRNV CSHCYPGSAK*GYMIYKDALPR RTSL
26462	56830	A	26611	133	453	QVDPNTVLRNAVHTNTYLQGL THPSANHKSLYTLLNNFLHICR LHTRRMHGKTGRVYGITQRAV GIVVNK*VTGQILAKRIVPIEHI KHTKSQ*SFL*ELRSPSVAS
26463	56831	A	26612	352	543	VPSINCGVPQGNMALMCRVLQ TEQAVKEYNALVAQGV RVGG VFHSTSDGSLKRRINH*VPKKK

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26464	56832	A	26613	576	927	FAERTRTHH*PKPRWKGALGC RARTAVTSRGCLAPSRRRRLP GRRASQPGPNADPKACRPWN PRGSQVHAKRNALCFSRASDAP PRPDASPGQIFPGRRRKECQTC KTRVRLGCL
26465	56833	A	26614	67	415	ALARKLPTNFQWVKKIDASPGS PIPLNAP*PSPSVQTTPTTGH RALSTVSEVPGAGARLTYRVF TRCKRSLILPSPVWVSRIPTAK SPILISSPGGAHAASVSALT VS GYE
26466	56834	A	26615	87	347	GIRY*LCHGFYHAYLGFRRRTS SPLQVSRPPPPRGTTQSEP*AQSP RSPELELGLHTASHSRAANAAS SFHLRFGFPGFHPSPPLF
26467	56835	A	26616	3	175	GFVTSSFFLGCLSFPDAYDLVFL LARE*HWKH*TQSILTLIAQCVF PEQPKRLCWVS
26468	56836	A	26617	539	788	EKEVPTLLDCCAALGQ*KCKMI QLLWKMV*SFSTKLNILLPNNP AVVLLGIHLKELKTYVLTETCT LMFIAGSQRNLRDYFRP
26469	56837	A	26618	843	1136	VKEQVYRRIAASRSVRRCYSQS RPGLLPATAGHHPQFHLYS DCHG NDIYSVYYQCEHGAASSSETG VPRFPCPWWSETAQ*TGCASHP GPSAQRSAL
26470	56838	A	26619	2073	2329	LVQTSRPPDPSWA*SATVTRPE QASWARNLSRFLLGMATVSG RGLPSGPGPRAMSPAGEPAPGA AEPAPPGSAAIPHRRPLLQ
26471	56839	A	26620	723	1023	ITLLGLSLIPLISRLPWTQSWGPL SFLSTPTSLISSTPLILNTINSLM TLRFLPPGGAFF*TPEPCIPPTQH PHLDVSLTGISNLRPQSCFHCL HLS
26472	56840	A	26621	99	288	CLCQNKLGEGRDDNFTSWQSS AC*TFCFLLAVDSAETTAES*C CCCCCCCCSAAGGWRRVLH
26473	56841	A	26622	130	450	RQLKLTAGCAKSPWLFWLKSY HSLYLAAACLLGLTYTRLGRSQ SSPPIHSHEFPATSL*QQLHGQ PA*WLYDGPATP/SIAPPAHLLP PPWRGGTPSPWLPPSPLQE
26474	56842	C	26623	1	672	
26475	56843	A	26624	408	581	LIKDESAPRTPQTVLASAQFCLL CR*ARCCRGGSCCCCCCCCCC WWCCCCYFGND
26476	56844	C	26625	66	264	

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26477	56845	A	26626	70	551	AAEDVWVYPSELYWPGPHGHC ETPRAGVFVVTSHHEGPGAGTA SSSSKGPSWARWGLEVSPLRWP SGQVGGAGSAESGQPLGSGFTF KAMGNLGESRARQAQLIHDRN TASHTAAAARTQAPPTDKVQ MTWTREKLIAEKYRSRDTLSLG FKDLFSMKP*VSPLRWPSGQVG GAGSAESGQPLGSGFTFKAMG NLGESRARQAQLIHDRNTASHT AAAARTQAPPTDKVQMTWTR EKLIAEKYRSRDTLSGFKDLFS MKP
26478	56846	A	26627	479	961	PQSSLQGNLQMPWGSCLDSST HYRPSLVGVDFQLPSFWLVICG TCKHCHRMLHSVALFWVPLHC GWSIPRPRCPHPHPPPLRGPS HPPSPWACPPRTGVQSATCPF A*RPTWSFTCDPTTKRSMRGLT HILRSGEKRPLPALCARSTSGSA TTSPGT
26479	56847	A	26628	1	223	MGAVQKAYNLQKRRRRRRGR RGRIRGRRGRGRRRRRRRRRK KKKKEEEEEEEEEEEEEEEEEE EEEEEEEE*VEEEEEEEEEEE EEERRRRKKKKKKKKKKKKKK KKRKKKKKKRKKKKKKKE
26480	56848	A	26629	1	341	
26481	56849	A	26630	78	354	ENDSFYNDL*ATQRRRRRRRRK KKKGEERRRKEKKGEERRRR RRRRRRRRRRRRRRRRRRRG RGRGRGRGRRRRRRRRRRRR RRRRRRRRRR
26482	56850	A	26631	1	327	
26483	56851	A	26632	41	246	
26484	56852	A	26633	1	170	RKRRKRKKRKKKKKKKKKKKE KEKEKEK\RRRRRRRRRRRRRR RRRRRRRRRRRRRRRRRRRR RRRRRRRRRNTNNETGE
26485	56853	A	26634	1	282	MCIESEREEEEEEEEEEEEEE EEEERRRGRGRRRRKKRKKK KKEEEEEERRRKKRKKKEEE EEEEERR\MRKKKKKKRKKK KKKKRQSL
26486	56854	A	26635	1	396	
26487	56855	A	26636	1	255	MLWLPQPALGTRAAETLACSR RRRRQLYNCCLYLRRRKKEE KEKEEEKGKEKEKEKKEEKRR RRRRRRRRRRRRRRRRRRRR RRRN

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26488	56856	A	26637	1	290	MKKKKKEGRRRKKEEEGEEGE E/DRRRRRRRRRRRRRRRRRRR RRRRRRRRRRRRRRRRRRRR RRRRRRRRRRRRRRRRRRRR RRRRRRRRRRRRRRRRRTTT TTTTTT
26489	56857	A	26638	2	423	
26490	56858	A	26639	3	167	QKKEDEEKEKEEEKEEEDEEEE /ERRRRRRRRRRRRRRRRRRRR RRRRRETQEAETI
26491	56859	A	26640	1	325	MEKNEKEQEEEEKKEKNSKKK EEEEEEGGGEE/ERRRRRRRRR RRRRRRRRRRRRRRRRRRRR RRGRRRRKKKKKK
26492	56860	A	26641	1	618	
26493	56861	A	26642	1	291	
26494	56862	A	26643	3	155	YRHLPKKKEEKEEEKEEEEEE EEEEEEEE/ERRRRRRRRRRRR KYEKKCL
26495	56863	A	26644	1	1410	
26496	56864	A	26645	578	842	TQEAELAVSRDHATALQPGQQ SKTPSEEEERRKKEKEEERRRR KKKKEEEEG/MKKEEEGRRRRR RRRRRRRRRRRRRRRRRRRR KKKEEEEE
26497	56865	A	26646	215	471	
26498	56866	A	26647	432	761	
26499	56867	A	26648	1	357	
26500	56868	A	26649	2	281	
26501	56869	A	26650	533	758	EQKKKKKEKKKKKEKEKEKEE EEEE\ERRRRRKRRTRRRRRRR RRSRRRRRRRRRRRRRRRRRRR RRRRRNTEK
26502	56870	A	26651	264	429	HRAAPATSDTQE*HRSNAFGEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEETLFSNM
26503	56871	A	26652	1	279	
26504	56872	A	26653	1	795	
26505	56873	A	26654	1	642	MKKCKTSVIGIATFYLSIPHIYT PPNQTSFMAAIAIEVQLTSAE PASIGFPVQKSPCGHLQLNGYK SSSKQGFPTPLLQESWNSSVKI TTCNVGDKKNINDRRSANMMH VNNFPFRHSHWICLDRVQSETL PQEKKEEEERRRRRRKKKKEE ERRRRRKKKKKEEEEEEEEEEE/ RRGRRRRRRRRRRRRRRRRRR RRRRRRRRRRRRKKERISL

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26506	56874	A	26655	1	1167	MAPRPQAARLPSCGTRSQGAA RPPPLGTAAAYRPLSSRLLTGPP PASSWLAHFIRIRVGSSGQGN QRIKYLGIQLTRDVKDLFKENY KRLLEIKEDTNKWKNIPCSWV GRISIVKMAILPKVQAILMLVLF LHLFCKYNIVGMENAGNGHD WSLDRHLMQASANQQATQLAI SRPSNQSKAQDFLRLLRKEKQT ALDTFAPLKEQAQKWNEGIR SSVIPGIQHQSLLAVLTFNSSK TSLGDRARPVSKKKKEESRKK KKKKKKKKKKKKKKKKKKKKKK RKRNNKKKKNNKKNNKKNNKEN KKKNKKKKKEKKKKKERKKKKR KR/EEEEEEEEEEEEAEAEKE RKERKRKKEKGRREGKKEGKR EGKGRRGRGRRKNKEERRSR
26507	56875	A	26656	342	616	RILHKSFRKLLCKGSFCSTRSPT REIRSKKKEEEEEEEEEEE/ERR RRRRRRRRRRRRRRRRKKRKR RKRKKKTCTKTKKKKKKKKK KKKK
26508	56876	A	26657	1	705	

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26509	56877	A	26658	1	2267	MKVELMGFAEGLAVRVREQUEE VRLNWKVELLWTDLRDVPKG ANSFRVSGSSGVEVFMVYNRT RVKEPIGKARWPLDADDMVV SVGTASKELKDFKVRVSYFGEQ EDQALGRSVLYLTGVDISLEVD TGRTGKVKRSQGDKKTWRWG PEGYGAILLVNCDRDNHRSAEP DLTHSWLMSLADLQDMSPMLL SCNGPDKLFDSHKLVLNVPFSD SKRVRVFCARGPEDVCEAYRH VLGQNKVSYEVPRLHGDDEERFF VEGLSFPDAGFTGLISFHVTLDD DSNEDFSASPIFTDTVVFRVAP WIMTPSTLPPLEVYVCRVRNNT CFVDAVAELARKAGCKLTICPQ AENRNDRWIQDEMELGYVQAP HKTLPVVFDSPRNGELQDFPYK RILGPDFGYVTREPRDRSVSGL DSFGNLEVSPPVVANGKEYPLG RILIGGNLPGSSGRRVTQVVRD FLHAQKVQPPVELFVDWLAVG HVDEFLSFVPAPDGKGFRMLLA SPGACFKLFQEKQKCGHGRAL LFQGVVDDEQVKTISINQVLSN KDLINYNKFVQSCIDWNREVLR RELGLAECDIIDIPQLFKTERKK ATAFFPDLVNMLVLGKHLGIPK PFGPIINGCCCLEEKVRSLLLEPL GLHCTFIDDFTPYHMLHGEAYS LECRQHWGKNLYFRVGLKKK KKKKKKEKEEGQEEEEEEEEEE
26510	56878	A	26659	1	990	
26511	56879	A	26660	1	235	MTAKCVCGWGVGEREREKER EEEEEEEEEEEE/ERRRRRRRR RRRRRRRRRRRRRRRRRRRRRR RRRRRRRRRRRRRRRRRRRRRR RRRRRRRRRRRRKI
26512	56880	A	26661	1	1101	
26513	56881	A	26662	348	806	
26514	56882	A	26663	39	684	LRCENPISSHVGHVGVSLAHTR GLFSRLILADREDISENWCSLVC CVCVCVCVCVWVLCISLFPGD MMTLLMKKDTLTEEETQFYIS ETVLAIDSIHQLGFIHRDIKPDN LLLDISKGHVKLSDFGLCTGLKK AHRTEFYRNLNHSPLPSDFTFQN MNSKRKAETWKRNRRLAFST VGTPDYIAPEVFMQTGYNKLK DWWSLGVIMYEMLIKGLHG

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26515	56883	A	26664	3	276	IKSIDDTSNFDEFPESDILKPTVL SSAP*AVHWRQGSESTLTSISFP VATSNHPETDYKNKDWVFINY TYKRFEGLTARGAIPSYMKAA K
26516	56884	A	26665	95	405	
26517	56885	A	26666	3	349	GPGGWLSLSPLVL*ALES*KEEE EEEEEEEEEEEEEEEEEEEEEE/ ERRRRRRRRRRRRRRRRRRRRRK KREKKKSWVDCTEEVAKYVGL ASLRISRVPPTDSTKEKTIEKVN RRK
26518	56886	A	26667	1	370	MHVAVSCPTAQSSQATVDSGK TLAETESPIGLSSKVGGKNIRAG EWDELKYDRFPGQPKKKKKRK RKEEEEEEEEEEEEEEE\KKKKKK KKKKKKKKRRRRRRRGRRRMQ QSHPNPTSAILAPWA
26519	56887	A	26668	1	430	MTFFPFDKRETDILLILNFSMEH CTRGQDPLGYQTTKKGFKDTE TPEKESLESKAECLGRRRKKKN KEEKEEKEKEKEKEKEKEKEK KRKKKRKKKKKKKKKKKKKKK KKKKKKKKKEEEEEEE\GMRKR RRRRRRRRRRRRRR*RRRRR RRRRRRRRRRRRGRRRGRRR RRRRRRRRRRRRRRRRRRRRR RRRMRKRRRRRRRRRRRRRRR
26520	56888	A	26669	1	708	
26521	56889	A	26670	1	1233	
26522	56890	A	26671	1	366	MSYVAVMFFCSVLGKFQMN EEEVEKRRRKKKKDKKKEKEE EEK/DERRRRRRRRRRRRRRR RRRRRRRRRRRRREEEEEEGEE EEEEEEKKKKRRRTLYCM*IA CKLKYLWTVSGHILCPNTN
26523	56891	A	26672	1	667	MSKEGNNRHWRLEGGGWRR VRVEKRLFRDYPSSHPRGAEAF TSPDSIGRCTLRFPLQMGHLHQ PALIAILRSGADLSHLEGPMLEA GASACAPAVSPGDQALQHPG EGRKVPGRRRRKEEEEEEEEE KRKKKKKKKEEEEEEEEEEE\K KKRRRRRRRRRRRRRRRRRRR RRRRRRRRRRRRRNKQTKGP PCKNLMLVFCPQNKAPSPCLQI AAEFSSAWAR
26524	56892	A	26673	365	670	
26525	56893	A	26674	29	370	

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26526	56894	A	26675	1	1364	MEMIWPSKGMPTSTSYSNKES SLLSVVQTSSYSHTHTRGSSEE VESLNRPTGSEIVAIINSLPTKK SPGPDGFTAIFYQRYKEELRIK YLGQQLTRDVKDLFKENYKPL NEIKEDTKKWKNI PCSWVGRIN IVKMAILPKIIVEDALQIYYDMV LVCVGVGVSCRIVISSLEVLES RGQRIFFLVQAEQVLWAFKEVS SNCNDKSTLRGSVVKLQCTSGT SAFDIFQVGSRLGEHRLPSVH SATYMSLT YFELAGLLEKSSQL VGSTGVEDIVAIMIPEPKGKEIV SLLERNITVTMYITIGTRNLQKY ERWKKKRTKGLEYQEFDFDDV KFRSLLDIEAEMPDLHRLPRNM HASSPSKRTARGRNKNKSSRLT MFGVEIQEEEEEEEEEEEEKKKR RKEEEEEEEEEEE/ERRRRRRRRR RRRRRRRRRRRRRRRRRRRRRR RRRRRRRRRRRRRGGRRRRRKH
26527	56895	B	26676	1	499	
26528	56896	A	26677	1	1684	
26529	56897	A	26678	2	297	
26530	56898	A	26679	68	319	IQHITS*TKKKRKRKKEEEEEEE EEEERRRRRRRRRRRRRRRRRR RRRRRRRRRRRRRRRRRRRRRR RRSHTSIPKESTLLQSQSVGLG
26531	56899	A	26680	1	1617	
26532	56900	A	26681	92	338	LEKEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEN*NVERY KKEGQW*KQRRQEKGLIPDG
26533	56901	A	26682	1	548	MVDQRHLVLTSSTKKNQNNNF QVFVIENVGREPQTDKIASPGA GQSCTASVTADLLSRDLHFTKV PSWSSDGPPYPPACHLMSEPY FWGSCCYDTPIKTKTTNEEEEG EGEEEEEEEEEEEEEEEEKEE EEEEEEEGEGEE/ERRRRRRRRR RRRRRRRRRRRRRRRGRGRRR RKPRGGR
26534	56902	A	26683	1	1215	
26535	56903	A	26684	1	571	
26536	56904	A	26685	1022	1365	TSLPPSSSIPSR LPSVVL SVRILS LWILACLAPWRWDL LRKASCL PAFSLLLSGANGSFS LGFQALL GRKEEEKEEEE*EKEKEKEKKK KKKKKKKKKKKKKKKKKKKK KKKKKKKNF
26537	56905	A	26686	24	355	

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26538	56906	A	26687	120	594	
26539	56907	A	26688	117	487	
26540	56908	A	26689	2	2482	
26541	56909	A	26690	2	654	KGDVGEWLSAGKGESSAMFAS EQEISKDEQGTPVLGSFYWEVD SPRKESSQAWAPGQEWIKLERD TTECKMFEQLKPIEPVQKTLPW VGEVAATLQEAMKRDCWREA RVKKKPVTTFEDVAVNFTQEEW DCLDASQRVLYQDVMSETFKN LTSVAWVRKKEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEVKRKRKRKRERK KKKKKKKERTTWLWGNPLT
26542	56910	A	26691	789	1072	
26543	56911	A	26692	1246	2367	
26544	56912	A	26693	579	1214	
26545	56913	A	26694	119	1870	SCSRNRLPVPSES LTRPLPSLA RWLPPPGLRQPSSRDY WPKGRL RLSAVPSPASP WALVSCLLPSS SQEKAGKILKKRVEKQQPEEKV GKGLEESLCPSSMSNHTKERV TMTKVTLENFY SNLIAQHEERE MR*RILFEKIEEEGLKDEEVINIG NVFLRKETEFLRLKRTLGLD FESLKVIGRGAFGEVKITATCQ VGHVYAMKILRKADMLEKEQ VKHSCSSAFILVEADSLWVVK MFYSFQDKLNLYLIMEFLPGGN YLTMKGHKDTL TEEETQFYIAE TVLAIDSIHQ LGFIHRDIKPDNL LLDSKVLGGHWHELPFQEPRLR GFLSQCCDTPFRALRFLASPSFQ VPLHSPRDLCTGLKKAHRTEF YRNLNHS LPSDFSKW*QLR*PK AETWKRNRRLVSNICGF*KN AENVSLGQVRWLTPVIPYIAPE VFMQTGYNKLCDWWSLG VIM YEMLIGKLHGFRGLPQETYKK VMNWKETLTFPPEVP ISEKAKD LILRY*RTSLHLQIKSIDDTSNFD EFPESDILKPTGNTTSIVSCDYK NKDWVFINYTYKRFEGLTARG
26546	56914	A	26695	271	446	YLVHILDALPRDPTALRRRQRC LGS*RKHQTRLRSRGPSSGPGG TDISVTA VSAPAQK
26547	56915	A	26696	1	171	WGVIWRENGRCFSGLLRAGLG AAWEPRVGEIKILVS*LGTC*IK LICQSWVGANPRA

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26548	56916	A	26697	1	179	MWKGPGLDMYKSSVSPKTS DILGRD/NSPAGLEGANSVAN CLWRGPCGRKLWEASRN
26549	56917	A	26698	2	140	DN*KGVHKRILSKLAPELGSFK GFRSLAVNTHNSYGGKGNRPL KIR
26550	56918	A	26699	3	601	
26551	56919	A	26700	232	1809	
26552	56920	A	26701	1	851	MQQEDPEESTKSPNPTTNKKQE KKLSLFGGLFTWTRVKFGAVT QIGGPPLGDQSPVLLLQRI.FSK GYRVSPSKAQISSPSVTYLNVS LIKTLTKTLLPKEAGVIHCKG HOKASDPIALGNTSADKGLFRP PPFSPHQARGFAPAQDWQIDFT QH/RP/GVRKQKYLIV*VDTFT G*VKAFPTREKATAVISSLI.SD IIPRFGLPSTIQSNSRLAFISQISQ AFFQALSIQ*NLIPYSPQSSGK VEQTNGLLKTHLTKLSLQI.KK DWTVLLPLALLRIRACP
26553	56921	A	26702	434	867	RLILPNRLGSPLLVWVDTFTG* VEVFPTGSEKVTAVISSLI.SDIL RFGLPTSI*SDSRPATKSSIFSLISP TLGSHDAPNPTRSSPEKHRPLSL HTIPQNFRCPDTLPLFRFIFFAFF SNTLHIMGKMAAEGPKSTLYC QFTEK
26554	56922	A	26703	96	415	
26555	56923	B	26704	1	933	
26556	56924	A	26705	1422	1774	DCPPSPIAFPQCTHQHHHHQYH YHHRHHRRHHHYQR*K*NPL PLFVYCYFQNH*ACHCSWGN EHMTIASESQA VPLQPPQDSQG FFEDLELHYFFGDPSETRPGKQP KVS VQQIL
26557	56925	A	26706	355	1014	RHLRPQERAPAPSGSVSPRPGCS QAPGGLLRVGRGGMLLPGCAA VADLQEEVPGFSWDAWAVKG EQRQGGGGVVKH*DAIPGQRV SDPGPPEPLASAPGQLSPSTPEY RRPPGESRRHRRPDLAQDQGA AVLLLAGARGLSPLPRIPALGA ASFPTLQFFLQLPSSGASTTSA GFFLLVLHQPLWLLLLDFLFDN LLLLRHSLFIPHGFLKCVSIPAF
26558	56926	A	26708	95	298	GSTQVLWAAWGGAGWTPRWP VFATWPVWQDMWPQQA WPLP QGV DIP*ACPPPPLRT*WL*ENR KAGS
26559	56927	A	26709	110	195	

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26560	56928	A	26710	241	957	KSPQIGLQGSWGA VGVGMRDP KERATEASKPDLLAQRQGEGHI FILFFSDYIPIFSSYLSLQRSSRGP SFFGPFSSPHNIPCEGRQNSSETPP WPSLGKRSKKSSLYPLPKAPQP KSRAPSPISNNLKNFPQPSSEKDD GPQPLWPQKWPLAPLFSRSPS* DDSGPCTEYCRRARRFKSFEDM AHIGPPKKVLYKIALGKFWELA DAKKRKKGTSETETCLLSRAT ELLPKGKRHCRGIL
26561	56929	A	26711	496	708	GMLFRGSGACRRGGRGTGGSGH A*PEPPVLPPLLHAPEPLNSMPH GLPAPPASPCHFPNLDSCVHSHS DTPLSVLPLPHLKSPLSSSDFCS YEVKKDAILSPMLSWWAGHRS AAGED
26562	56930	A	26712	302	561	TFLQLAAVWSADRVREALRP ALWDWRSAPVHPSPQGPTG*R GVGVHPAAASRGGESSHPTAF DRSPPPKPLRI*PEPSARSGLP
26563	56931	A	26713	1	411	LLVFQVHQCLHCKLL*/PSYVPL GYTEAFLATQNI GRVSLWAKH GHPDPFPLARADFRAQESPSPN DPSWLL*YFER*WSQATTKG*N RCC*RCD*LQAPSR RPEAVHTN DPR*REVREEHMLVQLVLR
26564	56932	C	26714	361	642	
26565	56933	A	26715	1805	2260	
26566	56934	A	26716	472	1667	AIHLLSLQTEFLVAERSSAAGRT TPATRAAFLAASCGPLHSCPTL LCSQLCCFSR SRVSGPKASLG IKEIASVDRVNTRRPACSTSSWL HNSGFTLSLANRDGGKRIRSET AKKGMSGDRSMKSWEVRRGY RWSSRAVRRPRACSSDGGTHF ALPMAARGSSGSPGSPANSVR QSLKSESSISAIWVAEQAGNV PRTSAQFGTGSESANTAARLIE KLLRAELDKPEIRDERIVGWWT TFGRPQLGSRVGFACSLAARM SSTSQNLEAAFGGKFCFLWALL LGLDDTFESRISDTGSAGMLLV EFFAPW*VHSESANTAARLIEK LLTAELDKPEIRDERIVGWWT FGRPQLGSRVGFACSLAARMS STSQNLEAAFGGKFCFLWALL GL

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26567	56935	A	26717	2	237	SVRQTTATSPA HKNSKRLIRSC QGF/HPEPPPTGACYKCPQPRIP HEPCPI/S/SQDPTENWTVQLTW QPLPEPELELWPKAV
26568	56936	A	26718	1	313	MESAQKEAVEIFGQPHAASSSG DVKPLLFDIFYKCSGEKVVCME HALRACYMCRKSGHWAKECP QPGIPPKLCPIC\GDPTGNQTVQ LTWQPLPEPELELWPKAL
26569	56937	A	26719	377	583	
26570	56938	A	26720	1221	1394	VASFYSLLQPPYPSTSFQSWR HTSISPF*FQFLSFGIFWQPLP EPELELWPKAL
26571	56939	A	26721	160	234	
26572	56940	A	26722	163	414	
26573	56941	A	26723	212	399	YSLKDCWPLSLSLNHFLLSILAS PFNLSLLISVPFLFW*RTETRFI WQPLSEPELELWPKAL
26574	56942	A	26724	809	874	
26575	56943	A	26725	49	220	
26576	56944	A	26726	71	375	LRSGDLPWEI/NPLSSCSLLREK DPPTTSGPQT\TSPRNISPILNPEL ATSARNLATRPRNACSPGFLLS RVPSVRDPTGNRTFQLTWQPL PEPELELWPKAL
26577	56945	A	26727	1	1011	CSEYEDSSPAPVPATDLSSSTLSS SVPQPQDTGTSSQQLHPLDPWHE LLRAQELQGATNHKGYSHAHEH EHAGLG VQGGNGALAFSNSGH RHAVPTISSGTGRRRT PSSSAFG LLNLHQWFVSGFQAFSDRLKA ALSASLLLRFGSDSWLPSSSAC KCLMLGLHFVIVGNICATLKEK YSSMLHLDVTMKNKEKRTRL QKRKKGMPPHPAYEDLNIAAIT LPANVVLHQPSGFR TSGQLDPV WWSLDTDAHEIWCQDPGLGSG DFPWEITPLSSYSLLHEKDPPTT SGPQT\TSPRNISPISNPRQRQV LSMDPKLRHRSRTGKAAPWC LIIAGTPL
26578	56946	A	26728	150	211	
26579	56947	A	26729	445	549	
26580	56948	A	26730	193	249	
26581	56949	A	26731	372	564	LRSADLPWEINPLSSCSLLHEKD PPTSSGPQT\TSPRNISPILN/PEK KETRFIRGPKTPAPVMD
26582	56950	C	26732	185	640	
26583	56951	A	26733	1662	1774	
26584	56952	A	26734	233	527	

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26585	56953	A	26735	380	731	LGSGDLPWEINPLSSCSLLCEKH PPTTSGPQTVTSRNPISPLNQEL ATSTRNLATRPRNACSPGFLLS CVPSVRDPTGNQTVQLTWQPL PEPLELWPKALCLTDSFPDLIG LTAED
26586	56954	A	26736	2	182	
26587	56955	A	26737	2	89	
26588	56956	A	26738	2	89	
26589	56957	A	26739	161	460	KMKEFMKKSSRTKDTRQQEQV LEPLFTIAKTWNQPKCPSTID*I KKMWYIYTMYYAAIKRNNKIV FFAGTWMQLEAIIILSKLIQEOKT KHHMFSLIRGR
26590	56958	A	26740	2	418	WYQHLLLMRASGSFQSWWKV KGEPAYHMANRP**SLISLRTK AKTGA*LFDYFVPHFIRKN*SLF TIKAWNHPKCTSVDWIKKM WYIYTMYYAVTRRNKIVSFA ET*MELEVIIIVSKLTQEOKTKHC MFSLTSGS
26591	56959	A	26741	902	1065	
26592	56960	A	26742	326	484	WYSWDCQLVTPWRPRIIPGPLG TWMELEAIIILSKLTQEOKTKHH MFSL*SGS
26593	56961	A	26743	527	825	QPLWGQLH*EVPSCWRFSA*IC YSSGLTVMMLSSWLDLIRPPWTL R*PREWRQCMGENHIGRGLGF* RPWTWMELEAIIILSKPTREOKT KHYMFSLISGS
26594	56962	A	26744	398	557	HYWLGTVVHTCNPSTLGS*GR QIT*AQELETSLGNKNVGCSELI LLSTLGNRV
26595	56963	A	26745	3	359	HRPGIPGTTISSWMDAWGRLEA RYMSYLHSRRGDHA*DKLQRD NRFASQTHSHWAKSSCHCRFES RPFFLPSPSWSYNRSWGGESAE RTWMKQRGTCLSHSPLDLIHP GLCQHKVGAR
26596	56964	C	26746	127	216	
26597	56965	A	26747	135	197	
26598	56966	A	26748	84	202	VLIHIRRDIMIPETVD*WEY**P* RLVPGQVQWVKPAIP
26599	56967	A	26749	483	669	
26600	56968	A	26750	1	274	EIRNKIHVSENSQIKTVKEKPSIS SSVSRLKGVNKRASFPEDRKD YTGSKAPKGS*GYTIN*LK*NN KRKKKQNKKLMPKTEQGQKN SIR

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26601	56969	A	26751	63	398	TPLRQPCSI RN VQQEPVGRFSGT GLPLSVARSSPWEA WPQCKWR FQNAGD*DIRQPDRGQGPRPAE PEKREPYLRSQQGAFLGSHSSGI QSLLGLGESCSYGATGKPVHP
26602	56970	A	26752	3	231	SVHEEEKMALPLGQSHCGLLY LYY**RCFKCYSFYCILFIKNAFI Y*NI*YINTHTHTHTHTHTIYIYI YNCLYI
26603	56971	A	26753	4266	4944	TDEIGASRLSRVESLAPEVKQN TTASGCELMHTEMQALRADW KQWEDSVFQTQSCLLENLVSQM ALSEQEFSGQVAQLEQALEQFS ALLKTWAQQLTLLEGKNTDEEI VECWHKGQVSWLPV*KAEPRT EDLKSQNLNLCRFSRDLSTYSG KVSGLIKEYNW*A*TLLKGCQN KEQILQQFRKAFRDFQQWL NAKITTAKCFDIPQNI SEVSTSL QKIQVRVLSI
26604	56972	A	26754	3	556	
26605	56973	A	26755	143	724	GWIPSDNSICVQEDCRIPQIEDA EIHNKTYRHGEKLIITCHEGFKI RYPDLHNMVSLCRDDGTWNN LPICQGCLRPLASSNGYVNIYEL QTSFPVGTVISYRCFPGFKLDGS AYLECLQNLIW RPAHPGALLW KEEDLNIFSLSFISHTSGWQLLC FIFALC*SPLPPQHLPV PQLAPPH LCKKCCSPA IKDV
26606	56974	A	26756	3	1393	CLRPLASSNGYVNISELQTSFPV GTVISYRCFPGFKLDGSAYLEC LQNLIWSSSPRCLALEVKIPVS GAVRVITITLPVTLGHPNVVTQR WKAGASDKGELVVLKLLFSPT AQVCPLPPMVSHGDFVCHPRPC ERYNHGTVVEFYCDPGYSLTSD YKYITCQYGEWFPSYQVYCIKS EQTWPSTHETLLTTWKIVAFTA TSVLLVLLL VILARMFQTKFKA HFPPRGPPRSSSSDPDFVVVDG VPVMLPSYDEAVSGGLSALGP GYMASVGQGCPLPVDHSPPA YPGSGD TDGPGES*TCDSVSG SSELLQRLYSPPRCQESTHPASD NPDIIASTAEVASTNPGIDIAD VDSSNIKLPDWQTKYRVASPAR STCEDRSGAPVGTHESLFFSIPS SARQDWAPLDSQLESQPQRLPT LQRDFLVDPQAERPVLDP ELT EIWCPNKNRIERHMEHSGIEA

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26607	56975	A	26758	1	500	
26608	56976	B	26759	19	148	
26609	56977	A	26760	184	539	LPAKEEEGHSSKSGPLLGPARRA LPGTALGARGAEQGDPEADH* GADTTKRCPLGPAPVPRKGIP AEGPRRGSRAGLGMWGPGLGA HRTAAPSPAEAPSPCQHPSSHSC PVACFEPVF
26610	56978	A	26761	1	441	DENRELLGVELDGIDVLLQQLSV FKRHNPSTAEQEMMENLFDL CSCLMLSSNRERFLKGEGQLM NLMLREKKISRSSALKVLDHA MIGPEGTDNCH*VCLTFLALRT IFPLFMKSPRKIKKVGTTKEHE EQCCSILASLLRN
26611	56979	A	26762	1	2403	
26612	56980	A	26763	17	751	AKMPFDANKLYCSEVLAILFFS PLENRELLGELDGIDVLVFA*Q VFKRHNPSTAEQEMMENLFD SLCSCLMLSSNRERFLKGEGQL LTLL*LSHSSDSCMPTWRGGS MEQGGRMGLGLVSVGLEHALL LTYGLYQRLPPQPQNAQPSFVH REKKISRSSALKVLDHAMIGPE GTDNCHKFVDILGLRTIFPLFM KSPRKIKKVGTTLPPLPAAATPT NRPSAMNGRVRMEAEQSSAHC

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26613	56981	A	26764	1	1914	MAEGERGADVPH/GPRGLAGR RGVGGGAARGRAG/PGGT/EGGG GPESLSGGSGVGDSGGGCAPGP SAPPARRRVPLAMGPRNLLIDW IWIMDTTLGLGTEGGGHSPVVL PLCASVSLGGLTFGYELAVISG ALLPLQLDFGLSCLEQEFLVGS LLLGAALLASLVGGFLIDCYGRK QAILGSNLVLLAGSLTLGLAGS LAWLVLGRAVVGFAISLSSMA CCIIYVSELVGPRQRGVLVSLYE AGITVGILLSYALNYALAGTPW GWRHMFGWATAPAVLQSLSL FLPAGTDETATHKDLIPLQGGG APKLGPRPRYSFLDLFRARDN MRGRTTVGLGLVLFQQLTGQP NVLCYASTIFSSVGFHGGSSAV LASVGLGAVKVAATLTAMGLV DRAGRRALLLAGCALMALSVS GIGLVSFVPMDSGPSCLA VPN ATGQTGLPGDSGLLQDSSLPIP RTNEDQREPILSTAKKTKPHPRS GDPSAPPRLALSSALPGPPLPAR GHALLRWTALLCLMVFSAFS FGFGPVTWLVLSEIYPVEIRGRA FAFCNSFNWAANLFISLSFLDLI GTIGLSWTFLLYGLTAVLGLGFI YLFVPETKGQSLAEIDQQFQKR RFTLSFGHRQNSTGIPYSRIEISA
26614	56982	A	26765	201	632	NLLCPLSAESRPEEGVRLFCSSQ FRSRQRPQAHKSAWGTTALSES MNCFASFGASISSADQEQHLH PGAVGSGRPGECLGPSGRCSK* GATFPGQKGRWKEARPSVPAP AAGLQSRAGHPRGGIRPGRPHG ERDSAACWGR
26615	56983	A	26766	197	777	LPSRGAGLRTCSPCLSLPPTPW TPVRPEPPQRAPPTPRRPVPST TQGLRNASARRGTGR/PAPP/VS PGAGSTRIEASWAPESAARAGL WGPSNSVQRAAESASRPHGFG QPPKAPARPGWLTGKFPASVPS ASRRAPPAAVTSARHYLYLRQPP PRPSSCPECNKIRLWPAFQLTPL CQGPAASERDRRKPKRR

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26616	56984	A	26767	178	697	ATLFIQKHQSGVKSTNP*IGRRS LTPEITAELGLERLNPRRCSSCL LGLKFEYHNSNLPLQLHGQAC GDPTNSVQRAAESASRPHGFGQ PPKAPARPGWLTGKFPASVPSA SRRAPPAAVTSARHYLYRQPPP RPSSCPECNTIRLWPAFQLTPLC QGPAASERDRRKPPQKRR
26617	56985	A	26768	1	858	
26618	56986	A	26769	10	1332	
26619	56987	A	26770	1	1086	
26620	56988	A	26771	1	1392	
26621	56989	A	26772	1	987	
26622	56990	A	26773	1	336	
26623	56991	A	26774	46	302	APGAVKKTWFGKKGREREKQE RR*RQLGKENENIVALQLRTD QEYWRHHSWHFFLSAAACQPE LFLLKHTAKNNRRIRVSQKWK
26624	56992	A	26775	1	1839	
26625	56993	A	26776	284	816	APGAVKKTWFGKKGRERGETR EKNNQPTVRTNSQTRDTFFKT* DLF*RMPSWELPSPASS*ASKTI KYLGIQLTRDVKDLFKEYKTL LNKIKEDTNKWKNI PCSRIGIINI MKMAILPKSGPSAARLLEFAGG PLQTLFAVVSPEEAAEQQILPN SQSCYLILPLEASSQRGSWLY

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26626	56994	A	26777	1	2547	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSKEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDDTTYQNLWDAFKAVC RGKFIALNAYKRKQERSKIDTL TSQLELEKQEQTTHSKASRRQE ITKIREELKEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDKGDITTDPTIEIQT TIREYYKHLKYANKLENLEEMD TFLDITYTLPRLNQEEVESLNRPI TGSEIVAIINSLPTKKSPGPDGLT AEFYQRYKEELVPFLKLQFQIE KEGILPNSFYEAHILPKPGRDT TKKENFRPISLMNIDTKILNKIL ANRIQQHIKKLIHHDQVGFIPG MQGWFNIRKSINVIQHINRAKD KNHMIISIDA EKA FDN IQQPFML KTLNKLIGDGT YFKIIRAIYDKP TANIILNGQKLEAFPLKTGTRQ GCPLSPLLFNIVLEVLAIRAQE KEIKGIQLGKEEVKLSLFADDM IVYLENPIVSAQNLLKLISNFSK VSGYKINVQKSQAFLYTNNRQ TESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLKEIK EDTNKWKNI PCSWVGRINIMK
26627	56995	A	26778	1	489	SISWKLWFTEFTLFRFFQPSVSA VPVSTLAVVLGLKTL SLLFSHSF PGRHSWALRAISLLPSFLYTSSL MNSFSYTVHLYLGGLLR LCGSR DPHACGFPEGSPLPSGSAA*PFI WGMRKPCSVLAPSCSR RDSFG CLSFSGHQCLHKSHVGSPPGPQ ERLYNG
26628	56996	A	26779	354	685	YRGYLRGECFP*KALCCEPAAY LQTCPNPFSGPACSGHALHSLN VGDCVYLICPRYPPLRRAGKPR DTGIEGRTLSSGGPSVHSSFHSA VLFPYTSKLLWIERRRPAGQS
26629	56997	C	26780	1	867	
26630	56998	A	26781	139	513	
26631	56999	C	26782	1	948	
26632	57000	A	26783	630	734	TAARSGYPGRAGTLTGLHPMQ VCRCRR*PYSRG

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26633	57001	A	26784	1	224	SRAGYDHHVVEPVERGTSGVRW YACCGLMVC PANPQHFAHGY/ VGKIPGYPARAGTLTGLHPMQ VCRRCRCPVYEI
26634	57002	A	26785	112	254	
26635	57003	C	26786	1	567	
26636	57004	C	26787	1	543	
26637	57005	A	26788	165	633	RIPGLLLCPAYPQHFAHGYVDK IPGYPGRAGTLTGLHPMQVCRC RRQAPCMKSNNALIVILGTVT DAVGIGLVMPVLPGLLRDIVHS DSIASHYGVLALYALMQFLCA PVLGALSDFRGPVLLASLLG ATIDYAIMATTPVLWIYPLVNS
26638	57006	A	26789	264	800	ISNFELCSRSIHLCSSTGYPR AGTLTGLHPMQVCRCRR*PAV
26639	57007	A	26790	1	738	
26640	57008	A	26791	84	162	AVLDLGPPTGRDPPQGSPDPYS GAFLASC GAPLGQRSQRKEQ AAIFAVLQLLVIPPGVGGTQT NRVWSGF PANHGNPGYPGRAG TLTGLHPMQVCRCRR*PPYRVI PQCGTPLGQQQPEVFVKQFWIL GLRLGETPHRGHQILIQGHSC
26641	57009	C	26792	1	531	
26642	57010	A	26793	216	519	QRESTIPSRPVERSNLGVRLYAC CGLLCPAYRQHFAHGYVDKIP GYPRAGTLTGLHPMQVCRCR R*PDRRGTERVSARKHVCFVVV SLFVAACRPPLRA
26643	57011	C	26794	1	606	
26644	57012	C	26795	1	1059	
26645	57013	A	26796	1	3285	
26646	57014	C	26797	1	1390	
26647	57015	A	26798	211	679	RIFKCKADLLLYDMLVYVTLWI HRAVITYTHRVPNHSYRRSNIKS ETTVPTRIVGPVERSNLGVRLY ACCGLLCPAYPQHFAHGYVD KIPGYPRAGTLTGLHPMQVCR CRR*PKPAPLPQSPQHLCSHQPH LAQRKTGQCFLQGHCFPEKNW GTV
26648	57016	C	26799	1	774	

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26649	57017	A	26800	542	1269	FIRDFADFGTTIKQDFRLLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKRKTTLAPNTQTASPRALA DSLMLARQVSRLESGQRKYP GCRLYASCELLLCVPNPQHFAH GYVDKI\PGY\PAGAGTLTGLHP MQVCRCRRQAPCMKSNNALIV ILGTVTLDAVGIGLVMPVLPGL LRDIVHSDSIASHYGVLALYA LMQFLCAPVLGALSDFRFRPV LLASLLGATIDYAIMATTPVLW
26650	57018	B	26801	1	1531	
26651	57019	A	26802	1889	2154	
26652	57020	A	26803	147	162	APSLHLKDTVDRSNLGVRLYA CCGLLLCPAYPQHFAHGYVDKI PGYPGRAGTLTGLHPMQVCRC RR*PGAHTVVDIRPREDHLGSA GQPNCPENGCLQGFTGLAYPE HHPCI
26653	57021	A	26804	2381	3641	
26654	57022	A	26805	1	2367	
26655	57023	A	26806	1	488	MDLLYMAAAVMMGLAAIGAA IGIGILGGKFLEGAARQPDLIPL RTQFFIVMGLVDAIPMIAAIAFV LFVLFCKMYVWPPLMAAIEKR QKEIADGLSSAERAHKDLVLAK ASATDQLKKAKAEAQVIEQAN KRRSQILDEAKA*GRQEPLVQV FLESARKR

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26656	57024	A	26807	2125	2435	VSPRQKSARPDLT*IRTLLCKVL GVLFSVAGGKKGPTCILQILKG QRRQEA*CISVMAERVWASGQ A*WEVWLHWAKSIDWFLFWK QHVHALRVRLDTCLFSLEEGSS FWNQGLTWKVVRRTFSESINH TPRITLGVPSVHGIQLPGLLNF GEFKVCFVLSPRIFNLTHENFLS SEGPERRGLLGATFNCLNKRLA KYRMRNVHPKPKLVRYLHSRL PPEPAAAP*AWCGPRHLSRRQM SSSSQIGNDSFQLQVTPVHLLPL SHTTRKNPEMYDLPLLIFNPQES AILQLFHQDGECLHCSPIVGDW CHLGHSQACPSFHVPSGLFVPS LLCGAAFGRVLVANVLKRY SVC VRVCAHVHVCARVRVYACVC VRMTISLTVILIESTNEITYGLPI MVTLMVSTLPPGPCQAQGHVR PTGPFRSLLEWETEVEMDK*G HDFAHVLVSECISSEA*GMLLL GGGPDRSLFSTFRAVWSLSRLL DSVIAAGKQ*A*RT*SVGYSL CPDLKGDPSAVFILRTTVHHAF PVVTENRGNEKEFMKGNQLISN NIKFKVKKTA*EERQVRDKRSR LTRLSALPIRNMCDHEIASSEPA EKEDLLQQMLERR*EPGGAPTA RRATQRWGEPLAQML*LTFHG LILRSQLVTLVRGVCYSESQS VSLSEAEISQARPDEARGVGRC RRADLTLLNPRMIVVRRAPAC
26657	57025	A	26808	24	369	
26658	57026	A	26809	4	371	
26659	57027	A	26810	82	703	
26660	57028	A	26812	1	1692	
26661	57029	A	26813	293	563	NVWPSSSVRGRNE*GREGRR RTQQAAGLGPA PSDLWWLWLS WCLQKNMSQGGENLPAGPGSC CGREAQEGAGTSLEDAPFFEAQ LLQLH
26662	57030	A	26814	1	488	VARLYWKRPSLHACHFRDPRA GLSENPRLLQCSPSSSSGNVWG PHLYAVPCL*NGRIIPSPWNYRS LNSTTSSTCSSFAVSSPSCPWW QLPGSCLLSRSLQRVAWSQAP VPMRSEQDQLQKPPPSAGLPA SVHANL*PGDRKGSVWTPAGV AQIPSPWP
26663	57031	B	26815	51	90	

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26664	57032	A	26816	299	707	RPPCRISCHPHTRCEGGRLRSRS PLLS*MPLSHPQGPSQPPAGSMS SSPPATTSTCSCSPPAAGCTRGR TTGRPFWTASGPAELDWASGSS VGL*SQGSQLGACGASYAGLG VPPRLLGPMTSCCMSLPFPSPAR P
26665	57033	A	26817	146	330	TVARRMELTPALLRALLNGILPI SEPPSNRIFACWGKPAWTACCN SLRARR*RAISCCPSH
26666	57034	A	26818	1326	1694	IFGWFGACCSLGSCCVVFTAST CTTVCGGCAIKVGSCLSLATMG CCVCCTSGLGACSCWRGVSF* CLMESWGICGSLCWSWSACRW MVCFCLVWKHCRVFTCS*VCS SGGWLSFCCLADCD
26667	57035	A	26819	1	1407	
26668	57036	A	26820	75	1397	SRGSGREKFPAQLSYQTLLGKG PIEGTSLSNLAQQRCKEHHCHF LREQGPNCLIERFMDRYTGKYI HMASHTTRCRPHVSRRPKARLL APATRSRSARARLRETRVRRGS PSCLWLNRRSRLPAEHSVRSPP RDMVFESLGLPSTKSSEFRSAA PEAAERAQPGDPCGLQTPAPLR PGFRRNQDPASAAAAAEIVRS GGGRGRILATTLWGCNTI.CITQ YTRIRKLTLYVCGVESKQEWG EYHEGVQAGLTRPGRSPKLIISK FLEKELTDRNWDQEDAEFEVK SSFPKND*VLKNRAIKKAKRRN VGFEVSAPLQLLLFKGLVVP*SG GGRFSGFGSGAGGKPLEGLSNG NNITSAPPFASAKAAADPKVAF GK*LSPSPSRLLVDKVSNPKTNG DSQQPSSSGLASSKACVGNAYH KQLAALNCVSRDWIVKHVNTN
26669	57037	A	26821	3	89	AASGRSFRGYSRRHCYHRR*QL HACHCP
26670	57038	A	26822	150	383	LCLGEVWKGSSFLTGTGRPGVF LSLHKKACYHHNHHRYYYYHH HHQTKP*QQELNSLLHFPHQI QGDQFHHHLYYL
26671	57039	A	26823	105	417	LCLGEVWKGSSFLTGTGRPGVF LSLHKKACYHHNHHRYYYYHH HHQTKP*QQELNCENMPQYNF QNGSQSYQTLILL/SLSTKFM*YS KFFVVISVMFIASSPETDF

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26672	57040	A	26824	89	554	AMNSCVTGDYRSPCGGFGFAF LYSSVSVSSESSEYQLSPLPPAKR PLAAQQSCSIPIASVFQQTIIHSLF AKDKKEFSSNLLDSKVNMCHE AHQLISHS*ANFRSICHIPQRW* NLIFEKFSDVSMGSGTGF**AEN WS*TLSIAASLVYSLLHKIQ
26673	57041	A	26825	84	239	ACTKKACYHHNHRYHHHHH HQT KP*QQELNSFRFSLSQPSLL AVFLFLRP
26674	57042	A	26826	2	245	
26675	57043	A	26827	154	546	LIVTVHVNHLGVLINHRFRISGC GVC GTDCISHKFGAADATGPS WTHCAVITFSLTTGSATKKTE DNNTFVFNVDVKAN*HQITRA VKKLCDIDVPEVNTLPNV SISFR FLLCSTVFCTLT VFFLRENG
26676	57044	A	26828	331	612	NHRGLPFPDYIPGTYLFFFFLF FSFSSFSSSSFSFPASGNHNSTLY FYGINFFSFHIGMRMGGIFLCLT CFT*HDV LQAHPHREGRQDLLF HD
26677	57045	B	26829	928	1617	
26678	57046	A	26830	95	929	
26679	57047	A	26831	3	1128	LYNRRRRRRRCSHCRHRCRRLSS GLRKEEVISLGASLGRVFPVPCSP PTVSAARGPTGAPGGPNSKPLS GCCDDGFNLGRQQWGNPLPFC SKTISSSLHWTWSQVNLVEILP AIFSSFLNLQHVNLWFLAAAM KAVTEQGHLSNEERNLLSVA YKNVVGARRSSWRVISSIEQKT ERNEKKQQMGKEYREKIEAEL QDICNDVLRGQCFCFEQWFL NSINLMYKCRLSNYFRYLSEVA SGDNKQSK*YL*KEIRPVMEPV FFHRDFTILIRLGLALNFSV FY YEILNSPEKACSLAKTVRKTL C DI*P*QNSACVINFILFLNLRDN LTVSTTSTGFIVSFLFTYLIHCY LQEVCSVSLCTLNIYPLCDK KK
26680	57048	A	26832	139	601	EGRGHLAQELLSERVFPVPCSP TGMTMDKSELVQKAKLAEQAE RYDDMACSSERHVTEQGHE\LS NEEKKSCSLVAYKECW*APRR\ SSWRVISSIEQKTERNVEGSSR WGKEYREKIEAELQDICNDVL ELLDKYLIPNATQPESKV FYLK MK
26681	57049	A	26833	70	122	

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26682	57050	A	26834	179	876	CIVLFFFSQFNFVGRILGPRGLT ANVNRYLELHTLYGYMNLFIV SIMKDVLSL*RE*F*SCTL*IF*E EQNRGKPNWEHLNEDLHVLIT VEGV*I*LLYLWTVSNAFISCVF HV*AEGEDRYCCLYTSF*ISLLT VAALAFSLAATAQAAPRIITGP APVLPPAALRTPTPAGPTIMPLI RQIQTAVMPNGTPHPTAAIVPP GPEAGLIYTPYIYIISKYLWLLSS CSPEP
26683	57051	A	26835	3	915	AEHPRLPDAADERQEAHDSLP NFCGIFNHLERLDDEISVRKD MYNDTLNGSTEKRSALPDV GPVQLQEKLYVPVKEYPDFNF VGRILGPRGLTAKQLEAETGCK IMVRGKGSMRDKKKEEQNRG\ KPNWEHLNEDLHVLITV/EKV LQEQGQEIKLKRAVEEVKLLV PAAEGEDSLKKMHLMELAILN GTYRDANIKSPSLAFLAGTAQ AAPRIITGPAPGLPPAALGTPTP AGPTIMALIRQIQTGGMPTGTP HPTAAIVPAGPEAGLRYTPYEY PYTLAPATSILEYPNEPSGCI
26684	57052	A	26836	1182	1360	KLSICVYIYICMFIYTHVSV*FYI YIYTHRHTENHYFCNSVQFVLY LFTFFCYFIWPA
26685	57053	A	26837	3	348	RNSKHVCRAEP*GHFCYK*HF WNHTEHTAVLEI/EQINARDET DFYLGNRCTYVCKEQHSGPGS KSNTTIVWGKVTCAQGKNSV VCAKFQSHPPAKAIGHRIHVML YHWRIQH
26686	57054	A	26838	264	527	NSKHVCRAVP*GHFC*K*HF NQREHTTVLEIEGVYARDETEF YLGNRCTYVCKEQHSGPGSKS NKTRVIWGKERGSGWCRLSGR
26687	57055	B	26839	26	515	
26688	57056	A	26840	92	341	
26689	57057	A	26841	224	1111	
26690	57058	A	26842	2	592	HSLTGRCIFFLITGTSPGSPMST TLKIMSSKEPSISPEIRSTVRNSP WKTPEITVPMETTVEPVTFSPQ LVFARLMTGVGLGAALPNLIAL TSEAAGPRFRGTAVSLMYCGV PIGAALAATLGFAGANLAWQT VFWVGGVVPLILVPLLMRWLP ESAVFAWRSISNKRA*FRDCRC CSAAIHW*RRFPFKSKPVM
26691	57059	A	26843	2	141	

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26692	57060	A	26844	1	978	
26693	57061	A	26845	144	647	
26694	57062	A	26846	1642	2652	FGILVLLALIVIWYNNFFGAETE AILPYDQYMRFAAYFQQGNM ESNGKYVDRNGNVVDYQTGPII WGEPTNGQHAFYQLIHQGTK MVPCDFIAPAITHNPLSDIIHQK LLSNFFAQTEALAFGKSREVVE QEYRDQGKDPATLDYVVPFKV FEGNRPTK*ILLREITPFSKINEV KAISDTICVIRDGQHIGTRDGIE HLTAWHPVNRHIKRVNDVSFS LKRGEILGIAGLVGAGRTETIQC LFGVWPGQWEGKIYIDGKQVD IRNCQQAIAQGIAMVPEDRKRD GIVPVMAVGKNITLAALNKFTG GISQLDDAAEQKCILSHPRCSW QGRHLLH
26695	57063	A	26847	52	137	
26696	57064	A	26848	1	1858	MGLKVDDKVPLFAVVSRI.TSQ KGLDLVLEALPGLLEQGGQIA LLGAGDPVLQEGFLAAAAEYP GQVGVIQYHEAFSHRIMGGA DVILVPSRFEPCLTQLYGLKY GTLPLVRRTGGLADTVSDCSLE NLADGVASGFVFEDSNAWSLL RAIRRAFVLCQGQFHHRITDVE YKGDPAVKIEESEINYLLNVY NTHFKKQLSRDDIVWTYSGVR PLCDDSDSPQAITRDYTL.DIHD ENGKAPLLSVFGGKLTTRYKLA EHALEKLTPYYQGIGPAWTKES VLPGGAIEGDRDDYAARLRRR YPFLTESLARHYARTYGSNQRA ACSAMREREARTLPQKLAGTL GMLSKVMRIPRQQEVTALRTY LQIRIGLHAAFNACEEMCQ RVA LERQLDSEERALLIERSQTVIRQ GRDLLHAWDATWNSAQALDN ALQPDRAGQFADALEKYAADE SFFAQLDKYDIPVVVIGKVEGQ YAHVYSVDTDNFGDSIALTDAL IESGHQNIACLHAPLDVHVSVD RVNGYKQSLAAHNIAVRDEWI VDGGYTHETALKAAARQLLSQS PLPEAVFATDSLKLMSIYRAAA EKNIAIPQQLAVRILFGLHL.*IV LSTRAGFGNLAHY

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26697	57065	A	26849	136	3261	PMSPTIYDIARVAGVSKSTVSR VLNKQTNISPEAREKVLRAIEEL QYQPNKLARALTSSGFDAIMVI STRSTKTTAGNPFLLEVAQAFP AKAE*KGFQVLVRTSHNPAEDL QKCESKIKQKMIKGHMLSSPAD ESFFAQLDKYDIPVVVIGKVEG QYAHVYSVDTDNFGDSIALTD ALIESGHQNIACLHAPLDVHVS VDRVNGYKQSLGAHNIAVRDE WIVDGGYTHETALKAAARQLLS QSVSLSVAVSWSAC
26698	57066	A	26850	73	174	
26699	57067	A	26851	252	575	PGFPRGPPPPPGFAPFHVSIWDT DLSDPAARAGLGVRWTPDPPR RAARSPVLPRLSAGQRPAAARL LGMEEGRFRQVAVFSES*SAV CPPSPPLSPLAPWTETA
26700	57068	A	26852	1	462	AQSVNSQTFSELRATQTFYKTT SHNSPGVFHTSTKR/FIDGNPPGI FSAITA*RLMMP*RSSIFSASASI LSVSFSGSTCNDQRPARGVL *DTRGETGCA*TGRPRRAR*LR RVEVRV*LLRVRARNGAQMA LVKTPCQTSAHNAPCRGRE
26701	57069	A	26853	692	918	
26702	57070	A	26854	1	2427	
26703	57071	A	26855	1347	1978	LPHCVANHGCALR*QKWVHD KEQTTQTLKMVAENGRWVIDD IVSNHGSVLQAVNSENEKTLAA LASLQKEQPEAFVAELFEHIAD YWPWTWVVSYSYRQAVNAF YKTTFKTANNPDEDMQIERQFI YDNPICFGEESLFSRVDEIRVLE KTADSARIHVRFTLTNGNNEEQ ELVLQRREGKWEIADFIRPNSG SLLKQIEAKTAARLKQ
26704	57072	A	26856	1	733	LSEVDVDVRQSIHSAHAKTLDT QGLRNEFLVEKVFADEYTMV YSHIDRIIVGGIMPITKTVSVGG EVGKQLGVSYFLTSNRRRTINKY LVPDVLETCQSSMGLTELAPGN *WNTMPCHTHERRMEVYFYFN MDDDACVFHMMGQPQETRHI VMHNEQAVISPSWSIHSGVGTK AYTFIWGMVGENQVFDDMDH VAVKDLRANHHQRFIISQRSDI HLTTQWIKRAAQTIHPPVSIQQ IVAFFE
26705	57073	A	26857	2	255	
26706	57074	A	26858	1	597	

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26707	57075	A	26859	2	640	EARGRQPQLHHLPHPPRASSPP LALQPLGRSRRCPPPPGAAAPD PRPDMGDLPLGLVRLSIALRIQPN DGPVIFYKVDGQRFQGNRTIKLL TGSSYKVEVKIKPSTLQVENISI GGVLGPLELKSKEPDGDRAVY TGTYDTEGV\TPTKSGER\QPIQI TMPFTDIGTFETVWQVKFYNY HKRDHCQWGSPFSVIEYECKPN ETRSLMWVNKESFL
26708	57076	A	26860	218	426	TQPRVWSQAQ/RALQPDTELPQ PPQTPKSDTDQMLSVKKKKKKR KKKKKKKKKKKKKKKKKKKK KKKKKKKKKKKKLYFQT
26709	57077	A	26861	1	423	
26710	57078	B	26862	1	252	
26711	57079	A	26863	1	171	
26712	57080	A	26864	5	254	
26713	57081	A	26865	16	220	ILDTSMPMRWTQKNFSMILAQPE QQCKTLSQNKNDRIKKKEE KKKKKKKKKKKKKKKKKKKK KKKKK*EKEKEKEKEKKKEE EEKKKKKKKKKKKKKKKKKKK KKKKKKKKKKKKKKKKKKKK KKK
26714	57082	A	26866	32	286	
26715	57083	A	26867	1	847	EVKDLYDKTFKSLKKEIKEDLR RWKDLPCSWIGRINIVKMAILP KAIYRFNAIPIKIPTQFFNELEGA ICKFIWNNKKPRIAKTLLKDKR TSGGITMPDLKLYYRAIVIKTA WYWYRDRQVDQWNRIEDPEM NPHTYGHLLFDKGAKTIQWKK DSIFNNWCWHNWLLSCRRMRI DPYLSPECTVKVSKWIKELHIK ETLKLIEEKVGKSLEDGMTGER FLNRTAMACSKKKEKKEEED EEEKEKEKEKEKEKEE\KK KKKKKKKKKKKKKKKKKKKK KKKKKKKKKKKKKKKK
26716	57084	A	26868	1	376	MLMKDPQWNSSIFISTHLALQQ KRRQAEYGAQEPSRRIVGGKGS GAQVDEEEEEEEEEEEKEE\KK KKKEKKRKKKKKKKKKKKKKK KKKKKKKKKKKKKKKKKKMLL LSLPMIRPRLPHPRWASSPSSMV AKP
26717	57085	A	26869	1	2031	
26718	57086	A	26870	1	957	

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26719	57087	A	26871	171	495	SQLLDMRKPFQKPGLRQLKTLF QYLNTR/CILDYLDNISPPQIRK LFYVLSTLAFSKQNEASSHIQD DMHLVIRKQLSSTVFYKYLIGII GAVTMAGIMAADRSESPSL
26720	57088	A	26872	1	3114	
26721	57089	A	26873	173	397	
26722	57090	A	26875	823	1194	
26723	57091	A	26876	1	1263	MESNAVQLTRMEYAMKSLSL YPKSLSRHVSVRTSVVTQQLS EPSPKAPRARPCRVSTADRSVR KGIMAYSLEDLLLKVRDTLML ADKPFFLVLEEDGTTVETEEYF QALAGDTVFMVLQKGQKWQP PSEQGT*WRRRTQRKDSVSRPC STHGLQEIQ
26724	57092	A	26877	128	317	
26725	57093	A	26878	431	574	
26726	57094	A	26879	112	482	EGPEAKPKRSNCAPEKRSSPIPD WEPAFSEDGRARTVARLQHPPL GGPTHRYHHFLRRHDPLRVHP AAERQEAHPGTSI*QSSPNSKQS PQGWKITFPNSLSLTRKYFQ QPRGWDFFKKT
26727	57095	A	26880	3	179	
26728	57096	A	26881	977	1127	
26729	57097	A	26882	121	708	
26730	57098	A	26883	38	828	GSRLRRLQAAAARPALPLPLPP WEWKHLPHVPEAKWWLTAR HSAAYRADPLRVSSRDKLT AASSQGNFEGNFESDLAEFAK KQPWWRKLFQGESGSPAKEYS VATQLFIGGVGTGWCTGFIFQKV GKLAATACGEVDF/LLLQLANH TWVHQSLTGNEWKDIEESPKS SLKIRKSQSDYLLRSGAKAAGR WCHFVKKNVLVTWGIFPEAFC LAWHPKEDDLHVPLFPFFPSQ QPFTLHHRDIESLLFFPWPSFP GHWEN
26731	57099	A	26884	1	642	
26732	57100	A	26885	1183	1349	

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26733	57101	A	26886	1	1371	MSFLIDSSIMITSQILFFGFGWLF FMRQLFKDYEIRQYVVQVIFSV TFAFSCTMFELIHFEILGVLNSSS RYFHWKMNLCVILLIL/VFPMV PFLQLAYFIVSNIRLL\HKQRLLF SCLLWLTfMYFFWKLGDPPIL SPKHGILSIEQLISRVGVIgVTL MALLSGFGAVNCPYTYMSYFL RNVTDTDILALERLLQTMDMI ISKKKRMAMARRTMFQKGEVH NKPSGFWGMIKSVTTSASGSEN LTLIQQEVDALEELSRQLFLETA DLYATKERIEYSKTFKGKYFNF LGYFFSIYCVWKIFMATINIVFD RVGKTDpVTRGIEITVNYLGIQF DVKFWSQHISFILVGIIIVTSIRG LLITLTKFFYAISSSKSSNVIVLL LAQIMGMYFVSSVLLIRMSMPL EYRTIITEVLGELQFNfYHRWF DVIFLVSALSSILFLYLAHKQAP
26734	57102	A	26887	1738	2140	
26735	57103	A	26888	81	733	
26736	57104	A	26889	1061	1154	
26737	57105	A	26890	1	3207	
26738	57106	A	26891	113	367	
26739	57107	A	26892	2	1391	
26740	57108	A	26893	154	647	
26741	57109	A	26894	40	747	
26742	57110	A	26895	1	3186	
26743	57111	A	26896	271	491	
26744	57112	A	26897	304	1836	
26745	57113	A	26898	1	2343	
26746	57114	A	26899	1	765	
26747	57115	A	26900	318	473	
26748	57116	A	26901	2	426	
26749	57117	A	26902	1	433	
26750	57118	A	26903	2	1004	
26751	57119	A	26904	125	199	
26752	57120	A	26905	3	156	
26753	57121	A	26906	2	397	VDGMGWSQDLFRALGRSLsRE GKEHVGTDQFGNKYY*SRSTK TGEVRWRRGQRLRGQ*LRGQT IREKRIVEAANKKEVDYEAGDI PTEWEAWIKRTRKTPPFMEIIL KNEKHREEIKIKSQDFYEKEKL
26754	57122	A	26907	1	1350	
26755	57123	A	26908	1	582	

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26756	57124	A	26909	2	687	GARQVLPGESPCFSSS\AKIVKP NGEKP\DEFESG/LSPQALLEL\E MNSD\LKA\QLREPELLRPA*GK LKVGGCSENLSI/ILLFPVPSN*K SFPENPQVRA*YRELEKK\FQW GSHVGLYRPQRRILP*AQLRKK PVQKNKQKASPRARTLTAVHD A\ILEDLGLPQAKIVGARESrvk L\DGSR\IKVHLDK\AQQNNVE HKV\ETFSGVYK\KLTGKDVNF EFPRSFNCKQK
26757	57125	C	26910	164	208	
26758	57126	A	26911	2288	2625	GSEGHLPITKRWSSLWEWRKG LSEVGSCRNLRCLRTAI/LM GGEAGVIHCKGHQKASDPIALG NAYADKVARQAASSPTSVPHG QFFSFTLVTPYSPAETSTYQSL PTQGK
26759	57127	A	26912	1	400	
26760	57128	A	26913	3	277	
26761	57129	A	26914	1	630	CEIKNRKAAEKVNKTGKFFEI NTYPGPIKTGEPGQTQKWLDI VRNTLVEEDTSSWSWRAHQPK STLTGTGRPSTNGTMSSLARTV REEPGNQPNYRGKPSPFWPHL VRAASTQPVITRLLQHGRCLKPI NSPYNFPILPVLKPKDKPYKL VQ DLHLINQIVLPIHPVVPNPYTLL SSIPASTTHYSVLDLKHAFFTIPL HP*FQPLFTF
26762	57130	A	26915	1	384	
26763	57131	A	26916	1113	1319	GRDPVSAFYIWLASFNTIY*IG NPFPIACFSQVCQRSDSCRYAA LFLRALFCSIDL YLCFGTSTMLF
26764	57132	A	26917	2	2144	
26765	57133	A	26918	99	470	
26766	57134	A	26919	636	1220	GPGFQAQNCAAIWADTKLAAG IFSHTPVAPGTPVRQNHLLPWD APAWSGEECLPLLRLVYVVFPS QCKQSCQEV*TGQSPQLGKAF VARLPL*IPSLWAGHLFLEHPV YCCGCVTAGRQGSWKGQRRH GHPFPLPLLLQMVCCSISYQY DYPESSFLLLFLSSLCSAGKSTG SHAILLGSFAVLPHLVALRS
26767	57135	A	26920	10	161	RLRMVRDIKVLNTRSLRNCLG DLTNKGRSIIGPPL*ELSKASVM VPVGF
26768	57136	A	26921	1	855	
26769	57137	A	26922	5	1442	
26770	57138	A	26923	1061	2332	

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26771	57139	A	26924	804	1100	SPKGGPPDPSHGTFHSRPCEET TKQAFCEQHGCFLHGLTGLGALL G*QRWLHQLSRPSLGCNESKSL FQ*PPLP*E*KEIQCKVPPNLGL GVRSGKGF
26772	57140	A	26925	3	1186	
26773	57141	A	26926	126	363	SRSKDQGLDPSGTWCKRAFSPG PWPIIPVAAGGGHSGGGKSET PAHLQKGLHKVKNC*PSTYSVC QTPDAEHPVSNK
26774	57142	A	26927	1	1125	
26775	57143	A	26928	401	446	
26776	57144	A	26929	332	499	
26777	57145	A	26930	74	200	
26778	57146	A	26931	300	416	
26779	57147	A	26932	324	430	
26780	57148	A	26933	60	381	
26781	57149	A	26934	2344	2453	
26782	57150	A	26935	131	274	
26783	57151	A	26936	144	444	GGGENFSYPWYLLVGCGWFSS SPIVPDVPPFSLLLPAQKKKPAP PK\PEPKPKKAPAKKGEKVPKG KKGKADAGKEGNNPAENGDA KTAQAQKAEGAGDAK
26784	57152	A	26937	540	811	
26785	57153	A	26938	69	375	QHLRPAAVAAATMPKRKAEGD AKGDKAKVKDEPQRRSARLS\A KPAPKPEPKPKKAPAKKGEKV PKGKKGKADAGKEGNNPAEN GDAKTDQAQKAEGAGDAK
26786	57154	A	26939	9294	9486	SLLYQPRCMAFRKASS*RGMP GGSASAARKPTG/SPGREGAGR RGQWGP RNCCAGRLPGGESTV
26787	57155	A	26940	248	613	
26788	57156	C	26941	94	234	
26789	57157	A	26942	2157	2408	
26790	57158	A	26943	547	815	
26791	57159	A	26944	254	467	VFLISVYNGLAISLYLGIHIRQK PVMPRNPLNCFGVLG*G*AGIG *IRSSLRTL VPLDNFSPKYLTFC EQS
26792	57160	A	26945	238	391	
26793	57161	A	26946	232	1659	
26794	57162	A	26947	1	951	
26795	57163	A	26948	1	2046	
26796	57164	A	26949	3	97	SVR/SKFYVREPPNAKPDWLKV GFTLSVEL*M
26797	57165	A	26950	1	828	

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26798	57166	A	26951	224	475	AGPRKMAPSALLRPLSRLLAPA R/LPSGPSVR/STKFYVREPPNAK P\DWLKVGF\TLGTT\VFLWIY\L IKQH\NEDILEYKRRNGLE
26799	57167	A	26952	1	411	
26800	57168	A	26953	442	2490	
26801	57169	A	26954	3	1592	
26802	57170	A	26955	9	308	
26803	57171	A	26956	153	227	
26804	57172	A	26957	1	411	
26805	57173	A	26958	517	825	
26806	57174	A	26959	6	646	
26807	57175	A	26960	1	275	
26808	57176	A	26961	3	272	
26809	57177	A	26962	1	1002	
26810	57178	A	26963	1	1791	
26811	57179	A	26964	2	160	HMTTSLLAQSGFQKTSALNKIT TKGSH*VQFTSLLPPPERVLVS MAERPWGG
26812	57180	A	26965	1	892	
26813	57181	A	26966	1	549	
26814	57182	A	26967	234	387	SCLEVCDEQGPEK\TRQRALRG VSSVTEDTLNICRLCWQPLPEPL ELWPKAL
26815	57183	A	26968	269	501	RARSEGAGLWSVVAPSAVSVFF VSDPRCAPFHRSPSCCSP/RRPC LSLSA*SRPRASGVGACLLWQP LPEPELWPKAV
26816	57184	A	26969	210	296	
26817	57185	A	26970	71	283	LRLGDLPSEINPLSSCSLLREKD PPTTSGPQ\TSPRNISPISNPDS GNRTVQLTWQPLPEPELWPK AL
26818	57186	A	26971	1112	1180	
26819	57187	A	26972	71	284	LILGDLPSEIKPLPSCSLLREKEP PTTSGPQ\TSPRNISPISNPDS GNRTVQLTWQPLPEPELWPKA
26820	57188	B	26973	1	663	
26821	57189	A	26974	1	502	MLLTQSLFGGLFTRTHMKFGA VTQIRGPPLGDKSPVLLLFALE RRHVLSMDPKLRCWSRTGKA AFPWCLIAEMPDISPTFQRCQ TTQGRLPWSFTLSSKSRSFSGEG ARACYKCQKSDHQAKECPQPG IPPKPCPICAG\TGNRTVQLTW QPLPEPELWPKAL
26822	57190	A	26975	233	496	
26823	57191	A	26976	226	543	
26824	57192	A	26977	1478	1744	

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26825	57193	A	26978	3	450	VRPRRDACLGPSPLAASPAFLG KGQVPQPLISLCPDPLFPHPNLIS LRPNPLCPHPDLVSLCPDPFPAF LEAHKNFQTTEPQQPGVPPEPP PTGACYTCRKSGHWAKECPQP GIPP\NHVPSVWDPTENLTVQLT WQPLPEPELELWPKAL
26826	57194	A	26979	615	724	
26827	57195	A	26980	1	1968	
26828	57196	A	26981	227	556	
26829	57197	A	26982	400	548	
26830	57198	A	26983	1	1968	
26831	57199	A	26984	65	741	
26832	57200	A	26985	1	658	
26833	57201	A	26986	1	666	
26834	57202	A	26987	67	608	NPGKGGCFVL/VLDGLLRDRKA VIREETFDGWHPQDRPLPAHA\ LVAG\IDRPTPPQK*TA\AMGKK KDRPKRSKIKSFCGKCYNY\NH\ LMPHKGTLDIPLGQNLFVQL RDVF\RDPGSLNRKA\REGPRF KFE/EREYETGQETKWVLPRKL AGFKNAFGFDSLKIIKKKKKKK KKTTKKGRP
26835	57203	A	26988	1	352	
26836	57204	A	26989	1	1419	
26837	57205	A	26990	2	878	
26838	57206	B	26991	75	2931	
26839	57207	A	26992	229	724	IIFIVYSSQLTYVKISDSFQTFKF CLDFCLFFSEMS\FLSLNISSCS* YSAKVNSCGKFGLTKGSFSAPL TPLFFLCFGSELVEGV*ELLAVG GLHLARIFLCLSISSLC*FTHSCC FTRVTPINLASNNSCLLGFRQLQS SSIAPSLGLLDGGVCFIRDIAAA
26840	57208	A	26993	737	1048	KKYNIQLEKPYFKHLYKNKLL KLSN*NMTSVQQFTIELEGNLS LSCIELVC/ILVTHCHLF/CMNK AW*QKKNT/WLSILTC*KHWQ YYNLVNSTDFNTSSSFLSKV
26841	57209	A	26994	1	1209	
26842	57210	A	26995	2	1683	
26843	57211	A	26996	1	1386	
26844	57212	A	26997	1	471	

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26845	57213	A	26998	2	514	VTARRRGTRWLRFRRASRVQK WLWLADFYLRYYVGHKGKFG HEFLEFEFRPDGKRLRYANNHN YKNDVMIRKEAYVHKSVMEEL KRIIDDSEITK\EDDALWPPDR VGRQELEIVIGDEHISFTT\SKIG SLIDVNQSKDPEGLRVFYLVQ DLKCLVFSLIGLHFKIKPI
26846	57214	A	26999	1	570	
26847	57215	A	27000	1	980	
26848	57216	A	27001	270	356	
26849	57217	A	27002	1	1032	
26850	57218	A	27003	1	1017	
26851	57219	A	27004	1	450	
26852	57220	A	27005	1	637	APIECGGIPSLPVLCSRANDQE GVRLLPESEAMPKSKELVSSSS GSDSDSEVDKCLKRKK\QV\AS ENPVKK\QKTGETS\RALSS\SKQ SQPAARDNMFQIGKM\RYVS V\RDfKRQKCL\DIREYWMDE GEMKPGRKGISLNP\QQWEPSL KEQISGPLIDASKKTCKISEPILI KPCTVPVVLWLF\SIGFCFLNVL RSYCMFGLQKNL
26853	57221	A	27006	20	412	RFSPLSFLLAGDSCTCAGSCKC KECKCTSCKKSKWDPLFPLPLP CPPACPLSTILRGIAVWGCP IA RKLLPPQ*SLSGRAGILIPGVAS THLCRLLSAPR\CCSCCPVGC AK CAQGCICKGASDKCSCCA
26854	57222	C	27007	32	505	
26855	57223	A	27008	854	1021	ALGGVAEYDLKEGLLLKH*AL VQSLVATEVRLVLCITSHTDML QICFFVYATVTQ
26856	57224	A	27009	1	726	
26857	57225	A	27010	99	537	
26858	57226	A	27011	1	963	
26859	57227	A	27012	146	609	VYLRCTGGEVGATSALAPKIGP LGLSPKKVGDDIAKATGDWKG LRITVKLTIQNRQAQIEVVPSAS ALIIKALK\EPDRDRKKQKNIKH SGNITFDEIVNIARQMRHSLAR ELSGTIKEILGTAQSVGCNVDG RHPHDIIDDINS GAVECPAS
26860	57228	A	27013	3	501	
26861	57229	A	27014	1	1623	

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26862	57230	A	27015	53	1227	QPPVHTTPASSPCDD\DIAALV VDN\GSGMCK\AGFAGDDAPRA VFPSIVGRPRHQGVVMVGMGQK DSYVGDEAQSKRGILTLKYPIE HGIVTNWDDMEKIWHHTFYNE LRVAPEEHPVLLTEAPLDP\RAT REKMTQIMFETFNTPAMYVAIQ \AVLSL\YASG/RVTTGIVMDSG DGVTHT\VPPIYEG\YALPHAILR LDLAGRDLTDYLMKILTERGYS FTTTAEREIVRDIKEKLCYVAL DFEQEMATAASSSSLEKSYQLP DGQVITIGNERFRCPEALFQPSF LGMESCGIHETTFSIMKCDVD IRKDLYANTVLSGGT\NMYPGI ADRMQKEITALAPSTMKIKIAP PERKYSVWIGGSILASLSTFQQ MWISKQEYDESGPSIVHRKCF
26863	57231	A	27016	2	438	ADLLQVSNVCVSSCQPPAFLVL FSSSRLPAGEGRPGQTQRPSS LEGAWHSVTLERRCLVSHLINL REAGMYPSPRCHHLFPDQLV*T EGGF*RPRLGWQRCHGTPQQA PSQPAFRSKHPRKGMPALQQQP GSGLCRPLPCRRCR
26864	57232	A	27017	112	493	AHSRTPARPENRAAASAPRKPR RAMSSPPEGKLETKAGHPPAVK AGGMRIVQKHPHTGDTKEEKD KDDQEWESPSPKPTVFISGVI ARGDKDFRPADAQVAHQKPHA S\MDKHPSRPTQHIQQPRK
26865	57233	A	27018	1	1176	
26866	57234	A	27019	3	307	
26867	57235	A	27020	86	179	SVKRRRC*SLLTWIGMRLQRQHR ECLAEQVGS
26868	57236	A	27021	1	948	
26869	57237	A	27022	3	534	EGAHFRAAHHPSTGSRCPGSL QPSRPLVANWLQSLPEMPVDFT GYWKMLVNENFEEYLRALDV NVALRKI/APTLLKPDKEIVQDG DHMIIRTLSTFRKLTSWNF\QVG KEFEEDLTGIDDRKVHDKQ*A WDGDKL\QCVQKGEKEGRGW TQ\WIEGDELHLEMRVEGL\VC KQVFKKVQ
26870	57238	A	27026	1	2400	
26871	57239	A	27027	294	425	
26872	57240	A	27028	1	797	
26873	57241	A	27029	1	173	
26874	57242	A	27030	1	1047	

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26875	57243	A	27031	2	1019	PTSAPHLSLSPRAVIERRSRALDW NASPSLSDPQGLDASLPFPHKR SRTASPEPAEHPVMDKNE\LVH\ KAKLAE\QAERYDDMAACMKS V\TEQGAELSNEERNL\LSVAYK N\VVGVARRSSW\RVVS\SIEQKT\ EGAIEKKQQMAR\EYREEIETEL R\DI\CNDVLSLVGKSSLIPNAFT SRRSKVF/YILENGKGDYLPFTL GWRVAAGWMDQERGLFDPVH NKAYPRKAFWKSAAKKGNGNPT HP\IRLGL\ALNFSVFYYEILNSP EKACSLAKTAFDEAIAELDTLS EESYKDSTLIMQLLRDNFDIVG HRDTQGRRKLEGREEGRGENL TGPFTFCPSWPHS
26876	57244	A	27032	177	477	
26877	57245	A	27033	1	1290	
26878	57246	B	27034	49	1112	
26879	57247	A	27035	98	245	
26880	57248	A	27036	1	351	
26881	57249	A	27037	3	471	
26882	57250	A	27038	1	440	MKMRVGCMLTAESLSDGGNS HQRTLSELFESKESQCEARGEV SKAGVWLVPLEPSSDALPKITS LVRPAVPWRPSSEAGLCEVRGG VLGKASKAPIKEPQLDRGMGL GAQRRGSSGTEVQSGETLGASG SPRGLLEPRPDWVSNNGAGSLG FQQLPIVDKIRTIAQAVCGAKDI ELCPEAQVKIDRYTQQYYSC*N PKLPAPLFETQSGLGSKSPLGLP LAPRVSPDCTSV/P/GAP/SAAGP RAPCPDPAVAPLWGLCWPFPEL
26883	57251	A	27039	1	1113	MHQEDLRAWYLDLGLPSHQN AQPTAWKCQRAPSPYTHQDMA LIPSPTARWLSPEKEPKQGEVG EKSLLPDPTLPLTDPRLTGSTEQ AHAEGLAALMSALRVSHLQGR GGVVTLVDSQLGVIAVSSTQFN KGPSYRLLADVQNRLLPKYDS QKEAELRSWIKFTGLSIRPDFQ KGLKDGIICTLVNKLQPGSVP KINASV*NWH*LENLSNFLKA MVSYGM/NPVDLFEANNLFESG NNMQVRVSLALAGKAKTKGL RSGVDIRDKYSEKQNFDDTTM KASQCVIRLQITNKCASQSGMT AYGTRRHLYPDKNRILPPMDNS TISLQMGTNKCASQVGMTAPG TQRHIYDTKLGDKCENSSMSL

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26884	57252	A	27040	347	1061	
26885	57253	A	27041	212	386	LQGSWVTSGLERICGSILGTIPL AHEVTDQHGMRMVYQVATAG F*SSLGAASIGTQGL
26886	57254	A	27042	1	1017	MHSRRERARGRLRGAHHPLVDN GPPQSLRAPPLLSPLKTAGAKSI WEPLASARRPETPERTPLQKTP EQVPTNFMGALHMKTSAPLSS RNGEGRRGGTSVASCPWVVG VCSAERQPCTQRVREALMGGW RAGAQNRAEDQVDEFTEVGF RRWVIKNYDELKEHVLQCKE VKNLDSIHPEISRLHEFITTTIT LPVIGGKVSLLSKCQDNAEQKQ SQGCSQEGHEVYDPRLNSSSSS SSSGGGQSPGLRRCSTSA ALEGAALKPMPVHAGLVGSGE GGGAGAVAGPCSRWGATTAA ASSAQAQPVRRGGSSGAQGHR GGRRRQAGKGGPAG*TA AP\GRGAEPGAAALLNLGGSG GAG\SAALKPMPVHAGLVGSG EGGAGAVAGPCSRWGATT AASSAQAQPVRRGGSSGAQGH RGRRRQAGKGGPAGSS
26887	57255	A	27043	644	949	
26888	57256	A	27044	811	1886	
26889	57257	A	27045	1	410	HAHSLNSIILPTPLEIHKV*IQIY A*GCKRISNNCWCHQHILSIS PDLRINEGKECGSPWIGVEAR/ MGELSSAVGLTSLLLYQQVPF HPHFQSPTFIPRESILLQHASCW RQHHLHTGIYSSYLPGWKQEF
26890	57258	A	27047	1	2445	
26891	57259	A	27048	1	457	
26892	57260	A	27049	1	873	
26893	57261	A	27050	2549	2728	ATSRSSALITSSKYPGKF*LILI* RSTLETANSISARLNNPFLRKYP SYFSLFMGTTRI
26894	57262	A	27051	277	394	
26895	57263	A	27052	2	1394	
26896	57264	A	27053	1	1091	
26897	57265	A	27054	1	1404	
26898	57266	A	27055	2457	2674	ANHCYLLSELQHWSDCPVVLQ SAG*RH*DRN*DGNQY*SR/SLS *SR*STTK*RNTPCSQVSSLSRI.S TRSAP

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26899	57267	A	27056	716	1455	LFPRLLSCLTTPPHCSFSICFVIC SRTLILKGNYSQDNHTLR/DPH YVEDKGHKYLVFEANTGTENG YQGEESLFNKAYYGGGTNFFR KESQKLQOSAKKRDAELANGA LGHIELNNDYTLKKVMKPLITSN TVTDEIERANVFKMNGKWYLF TDSRGSKMTIDGINSNDIYMLG YVSNSLTGPYKPLNKTGLVLQ MVLIPNDVTFTYS\HFAVPQAK GNNVGIHQATLTN\RGFFEIKKA TFAPSFL
26900	57268	A	27057	66	197	
26901	57269	A	27058	379	905	AGNFVHITVRKMLWIRRDQQQ S/DKQDIQTAHRSYSVLKGYND MYYGWPCCKVNEISGQLASEP A*SLVLPAAAG*QAPASGSPWLS GGPQQVEDAGAGYGFAPGQPP PPPRTQPRSACSRRAAGSQFHG RPLLPRQAAKARAPRSLGCGSL GRFSTGVRPDKCIFPETENAA
26902	57270	A	27059	1	1608	
26903	57271	B	27060	1	1974	
26904	57272	A	27061	2712	3216	KTGRGPTDKFGVANDPILKDQT QEWSSGAPFTSDGKFRIFYTD YSGKHYGKQSLTTAQNQQFI DEGNYTSGDNHTLRDPHYVED KGHKYLVFEANTGTENGYQGE ESLFNKAYYGGGTFFFRKESQK LQOSAKKRDAELANGALGHIEL NNDYTLKKVMKPLITSNT
26905	57273	A	27062	1	3066	
26906	57274	A	27063	1	972	
26907	57275	A	27064	14	273	
26908	57276	A	27065	42	302	
26909	57277	A	27066	1	487	MGLSLKGPESAPIPKTPQFNKIL FKPIAVYNRFTQFRLSETKEITN PYAMRLYESLCQYQRYQLPQS YQRISLTSAASCRSVLMRSTA ELQCASHTLRKRKAARRLISLS EMPRKQGDYRTRIWKFDGLS NVLVIQLNKLICVMCLVRDCD VLKTYFHR
26910	57278	B	27067	1	1035	
26911	57279	A	27068	132	230	CHYFACMWSGCEVYS*SAPG** C*EDLSGMVR
26912	57280	A	27069	1	2784	
26913	57281	A	27070	855	980	LSCSGWRAG**ADGCIIQIG*RL SPNKCL*TWSALCKPIAE
26914	57282	B	27071	85	863	
26915	57283	A	27072	345	500	

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26916	57284	B	27073	1	1116	
26917	57285	A	27074	1	1173	
26918	57286	A	27075	1	999	
26919	57287	A	27076	771	908	
26920	57288	A	27077	104	547	LFPRLLSCLTTPPHCSFSICFVIC SRTLILKGSSLMYVFCLPNTAIV MALSPRGWRSKFGMPVDSKGP PWLFKFLKNGLNFLHLSVGTRD LSRLSTILSPLYNTVAPGAN*CR ELKLVLDDADDVLSTEVKRVITS SASNITPAFFCS
26921	57289	A	27078	34	1353	
26922	57290	A	27079	213	338	LSCSGWRAG**ADGCIQIG*RL SPNKCL*TWSALCKPIAE
26923	57291	A	27080	1	1246	MVKVGTSYVPINVSFSPKVGPG LPGINRDTRIYLFCEVIFRHRKD RESADLGSDGQNGPRPWIGEA VAAAAADGVTFSVPVTPHTR HSYAMHMLYAGIPLKVLQSLM GHKSISSTEYTKVFALDVAAR HRNRFTQFRLSETKEITNPYAM RLYESLCQYRKPDGSCIVSLKID WIERYQLPQSYQLYYFELAIPV GYFYPGSFSTASRILLHPRGLR AITIAVFGKQNTYIRLEPFKINV LEQITKHIEKLQCGGVVKQLSR RGNNQHISSTYDINRADYPG*A RDPHMLRLAIETVAHDYDVIV IDSAPNLGIGTINVVCAADVIV PTPAELFDYTSALQFFDMLRDL LKNVDLKGFEVDVRIILLTKYSN SNGSQSPWMEEQNSGCRGKTS RVEVPHRDSQFKVIKLVTLRQL VTLYDPVDFQRDDA
26924	57292	B	27081	1	1041	
26925	57293	A	27082	1	1011	
26926	57294	A	27083	2	1007	
26927	57295	A	27084	1	738	

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26928	57296	A	27085	1	1439	MAETAVINHKRKNsprivQSN DLTEAAYSLSRDQKRMLYLFV DQIRKSDGTLQEHDGICEIHVA KYAEIFGLTSAEASKDIRQALKS FAGKEVVFYRPEEDAGDEKGY ESFPWFIKRAHSPSRGLYSVHIN PYLIPFFIGLQNRFTQFRLSETKE ITNPYAMRLYESLCQYRKPDGS GIVSLKIDWIIERYQLPQSYQRV WTPGINCPEPCPGVWTPGINCP GAWGIHGPHGSAENTGPLHPG Q TSAQLETSLLPSLRSARELELA QLSPRRKQNRSLQNIQVTPSLR VPWPKASNVQQFIDEGNYTSG DNHTLRDPHYVEDKGHKYLVF EANTGTENGYQGEESLFNKAY YGGGTNFFRKESQKLQQSACK RDAELANGALGIELNNDYTLK KVMKPLITSNTVTDEIERANVF KMNGKWYLF TDSRGSKMTIDV PQAKSNNVGITSYMTNRSFFED/ KKATFAPGFLWNIKAIKTS
26929	57297	A	27086	345	563	
26930	57298	A	27087	1	1188	
26931	57299	B	27088	1	1186	
26932	57300	B	27089	1	1090	
26933	57301	A	27090	183	410	
26934	57302	A	27091	1	1557	
26935	57303	A	27092	888	1165	CTRERRIKARGPPAGKRWLLS GSSGRKHHL*QDPRPGSQTAGD LPEPARPIIVIGEGSQMGLDECQ FQFRNGRWNC SALGERTVFGK ELKV
26936	57304	B	27093	1	1027	
26937	57305	B	27094	1	1117	
26938	57306	B	27095	1	1377	
26939	57307	B	27096	1	1014	
26940	57308	A	27097	1040	1285	
26941	57309	A	27098	901	2277	
26942	57310	A	27099	1	1122	
26943	57311	A	27100	1	1137	
26944	57312	A	27101	1	1881	
26945	57313	B	27102	1	1211	
26946	57314	A	27103	294	506	NRRPGSAATVWAAAAEP SERG NNPALENR*SSGFSWGFFSGYQ RCRESRATTAPGYGNSRTG*AT CWLYN
26947	57315	B	27104	1	1073	
26948	57316	A	27105	1	1809	

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26949	57317	A	27106	1688	2187	SYFIMVKVGTSYVPINVSFSPKV GPGLPGINRDTRIYLFCEVIFRH RYLFAISSWSGVTVA\RKDRES ADLGSDGQNGQDLDWGGGAA AAADGVTFSVPVTPHTFRHSYA MHMLYAGIPLKVLQSLMGHKS INSTEYTKVFALDVAARHRV QFAMPESDAVAMLSF
26950	57318	A	27107	782	1402	LFPRLLSCLTTPPHCSFSICFVIC SRTLILKGSSLIKLLFYKIPSM LV SSVLLLEVKSHIVGPGLPGINRD TRIYLFCEVIFRHRYLFAISSWS GVTVA\RKDRESADLGSDGQN GQDLDWGGG\AAAAADGVTFS VPVTPHTFRHSYAMHMLYAGI PLKVLQSLMGHKSISSTEYTK VFALDVAARHRVQFAMPESDA VAMLKQLS
26951	57319	A	27108	197	421	LAMPGAGFSSSLRMASIFSISV GTRDLSRVSTILSPYNTVAPG AN*CRELKLVDADDVLSTEVI RVITSSA
26952	57320	B	27109	1	934	

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26953	57321	A	27110	1	2047	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGRRLRAEDVFPPVI GVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGNPDQGT SMYHGWVPDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPLDI IPSCALHRIETELMGKFDEGKL PTDPHMLRLAIETVAHDYDVI VIDSAPNLGIGTINVCAADVLI VPTPAELFDYTSALQFFDMLRD LLKTVDLKGFEPDVRILLTKYS NSNGSQSPWMEEQIRDAWGSM VLKNVVRETDEVGKGQIRMRT VFEQAIDQRSSTDLSLSTPAAP MVDSLIRVGVMMARGNAITLP VCGRDVKFTLEVLRGDSVEKTS RVWSGNERDQELLTEDALDDLI PSFLTGTQTPAFGRVSGVIEI ADGSRRRKAAALTESDYRVLV GELDDEQMAALSRLGNDYRPT SAYERGQRYASRLQNEFAGNIS ALADAENISRKIITRCINTAKLP KSVVALFSPGELSARSGDALQ KAFTDKEELLKQQASNLHEQK KAGVIFEAEVITLLTSVLKTSS ASRTSLSSRHQFAPGATVLYKG DKMALNLDNRVPAIIRSYIR CGRKGFASAGVGGCRGWLNY AASEQIVLRVHHMRCEIPHRCV
26954	57322	A	27111	1175	1298	LSCSGWRAG**ADGCIIQIG*RL SPNKCL*TWSALCKPIAE
26955	57323	B	27112	1	1056	
26956	57324	A	27113	1979	2217	WLSVRVDGGANSCLGKHGSK KCCT*NG*SW*RSDPDENCF*T EQ*STLFN\GAWRNALSIWEPV CN/GNFRSSD*TTLGD
26957	57325	B	27114	320	1633	
26958	57326	A	27115	606	705	
26959	57327	B	27116	1	4118	
26960	57328	A	27117	4048	4051	
26961	57329	A	27118	1791	1884	ADGCIIQIG*RLSPNKCL*TWSA LCKPIAE
26962	57330	B	27119	1	2436	
26963	57331	A	27120	1	2449	
26964	57332	B	27121	173	4112	

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26965	57333	A	27122	916	1568	HHSHEQQFQWPVGASGVDRW AGYLHQFRSLTQFQYGAEPDR KE* CQIFIFMQKTLSCLSILGKR TMSLMQ
26966	57334	A	27123	1268	1773	SYFIMVKVGTSTYVPINVSFSPKV GPGLPGINRDTRIYLFCEVIFRH RYLFAISSWSGVTVAIRKDRES ADLGSDGQNGQDLWDWGGVAA AAADGVTFSPVTPHTFRHSYA MHMLYAGIPLKVLQSLMGHKS ISSTEVTYTKVFALDVAARHRVQ FAMPESDAVAMLKQLS
26967	57335	A	27124	606	852	HQILFDRTPVSVDDQSVEKKG*D HSVRPQ* AAPGHVHYLTIPKES SQHYHPRTTSE* TSGRYESSGG LSFSQCMRGALEFCC
26968	57336	A	27125	1	2680	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPVI GVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGNDPQGT SMYHGWVPDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPGLDI IPSCALHRIETELMGKFDEGKL PTDPLMLRLAIETVAHDYDVI VIDSAPNLGIGTINVVCAADVLI VPTPAELFDYTSALQFFDMLRD LLKNVDLKGFEPAETSQGAL GTLANVVTSLANLSESLNNGDT SEIQPEDQSASEITRAFDTLAKA LNTTDSSTSPSLADGIDTSGGGS IHVISRDQSTPIIEVEGPLLSDTH VTFKSIREDRNGRSQKTVHTEG DMNMNIKKIVKQATVLTFTTA LLAGGATQAFKENNQKAYKE TYGVSHITRHDMLQIPKQQNE KYQVPQFDQSTIKNIESAKGLD VWDSWPLQNADGTVAEYNGY HVVFALAGSPKDADDTSIYMF YQKVGDNISIDSWKNAGRVFKD SDKFDANDPILKDQTQEWGSA TFTSDGKIRLFYTDYSGKHGK QSLTTAQVNVSKSDDTLKINGV EDHKTIFDGDGKTYQNVQQFID EGNYTSGDNHTLRDPHYVEDK GHKYLVEANTGTENGYQGEE
26969	57337	A	27126	2014	2138	LSCSGWRAG**ADGCIIQIG*RL SPNKCL*TWSALCNPTAE
26970	57338	B	27127	1	7616	

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26971	57339	A	27128	240	719	HSKKLVTLSHGSVMAETAVIN HKRKNSPRIVQSNLDTEAAYS LSRDQKRMLYLFVDQIRKSDGT LPEHDGFCYIHVAQSAEITGLTS \\GNPVRIYGRH*RVSRGRKVVL YRPEEDAGDEKGYESFPWVIKR AHRPSRGLFSGHIPPISHSLLYR
26972	57340	A	27129	1505	3812	
26973	57341	A	27130	471	566	
26974	57342	A	27131	1	229	
26975	57343	A	27132	121	303	
26976	57344	A	27133	183	524	MSTPRPPFVPAFVGRRPSLLFVP AARLTDVRGRKVRACGLLSPR LRSPSSSSATRVARHSIGRPRVA RLSTVFVAVCVESPSRQRRWCL FALAATPRAPGTLA*SCLTDSFS A
26977	57345	A	27134	1	1025	MIFVLQIRVRGHDDSFLLKNHLV FLVIYGTNGTFNQTLVTDNNGL APFTLETSGWNGTDVSLEGKFQ MEDLVYNPEQVPRYYQNAYLH LRPFYSTTRSFLGIHRLNGPLKC GQPQEVLDVYYIDPADASPDQE ISFSYYLIGKGSVMGQKHLN SKKKGLKASFSLSLTFTSRLAPD PSLVIYAIFPSGGVVADKIQFSV EMCFDNQGTDLTSTVRVTRSSA SVMVYGASEAIGQRQSSAAKP RRSQSDSLGPEFQGLWERLPGL RINGELITAYPVVVVRVPTPW VQSDSDITVLRHLEKMGCRML NRPQAILNCVNKFWTFQELAG HGVPLPDTFSYGGHENFAKMID EAEVLEFPMVVKNTGRHGRMY ELLVSTMCCSNMGMVTTPIKWL SMISVQCLANGTFLSPSLTKCPK GIRASVPLSGGPRSLKARTFSAF SGPVRSDAQEALPEAYEPIEV NEFGEIDLLAMVEDEIILALPVV PVHDSEHCEVSEADMVFGELPE EAQKPNPFAVLASLKRVRMA VQQNKPTRSKRGMRRSHDALT AVTSLSVDKTSGEKHLRHH*SA DLAAAPRAPGTLAQGCLTDSFS
26978	57346	A	27135	79	306	SGDLPWEINPLSSCSLLREKDP MTSGPQTNPQKKHLNFKSGPH WKSDCSTHLAATPKAPGTLAQ GSLTDSFSA
26979	57347	A	27136	159	254	
26980	57348	C	27137	63	370	
26981	57349	C	27138	107	408	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
26982	57350	A	27139	210	291	
26983	57351	A	27140	395	680	
26984	57352	A	27141	157	485	
26985	57353	A	27142	1	507	
26986	57354	A	27143	1	1041	
26987	57355	A	27144	1	671	GASGAAAYGADMAKSKNHTT HNQSRKWHNRNGIKKPRSQRYE SLKGVDPKFLRNMRFKAKHKNK KGLKKMQANNAKAMSARAEA IKALVKPKVKPKIPKGVSRKL DRLAYIAHPKLGKRARARIAKG LRLCRPKAKAKDQTKAQAAAP PSVPAQAPKDKDTSNIFISNRKR GCDFTKKETNIPKVLTIMAPSL MSLYSVTRNQTTKPPSRHKNLT KGQLEPLY
26988	57356	A	27145	6	448	
26989	57357	A	27146	930	1307	
26990	57358	A	27147	1	675	
26991	57359	A	27148	142	456	
26992	57360	A	27149	3	175	
26993	57361	C	27150	378	434	
26994	57362	A	27151	1	792	
26995	57363	A	27152	1	578	MVRCVRLVEAGSVVRYLSTSIC RPVVDAGSRALCLQEWADSQQ VKEKQYSSRDVQRAAALNIYRI PPSSRKPALCPTPRDRLEYDEDR LEHIAVVRARELHTLEVTGLET VAQSKAHVASLEGLIPEDKVVL LAGSPLQNEATLGQCGVEALT LEVVGRRLGASL/HTSASKHTM VRALTYCSSREETFTAI
26996	57364	A	27153	1239	1905	SAAAAPATGVPACRAGAWVSA APPAEGRPARARRHPGRCLEAA GPRGQRGAHGH*ARAGSPQP GAPPCHPLGIPARQPLGLPRRTR CFGGIAQRGRAARHCLLSRPSA KAKRNSSYREPGMGWRSPQA LGEYGKGSQAGSARLSGAASQ GRRARHLRGKAPAWNPPPPSP PPPALGLPLRTQREATRKPRRE EARRPRPRPLRPGGANGSPGPP RAARA
26997	57365	A	27154	1	1275	
26998	57366	A	27155	3	92	EAVDPHSECYSS*RWCVRSFFIL VGLWSH
26999	57367	A	27156	2	367	
27000	57368	A	27157	98	293	GQTFATASISLLRYATGCGVFP RV*IRSPRAIPALSGDWPAPFSV LSEPPRFVCLRAMTKAAAF
27001	57369	A	27158	3	211	

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27002	57370	A	27159	1	519	GQLI/LKDTFITQSAADIRRKFO KQALGPEHNLEALLNLAILVY NRDQEEQAQKEKRDQRKAAPL IMALRQTLVVQRGQKMEQANH LIPGYSEIARPLYTLIKEIQRANT HQVEWEPEAETAFAKPLKQALV QAPALSLPTGQNFSLYITERAGI ALGVLTQTHGTTPLVAYL
27003	57371	A	27160	72	381	DSHTRSGTTRWGI RCRSGSSPSR RARWGRWGGLAAVALRRPAP AAGGTAPRGCLPAA*GSPPAPP SGS*SGSSDRPARMPLVVGSLH EFE*GLAGVDGEVLPPSRCVAL LLLRLVERLHVAVYLPREALHQL HPLALDLDLLIARLVCHWLWG CPTSLSKDSKSYSCSLCDV
27004	57372	A	27161	515	747	SHGNSGNFQGTDRDTISLS*AQLT TSTKDPWTDPPALWPRVFPSSG HYNCRAPSSP/TIQQEVARAVIT QFPTAAGVSCL
27005	57373	A	27162	1	663	
27006	57374	A	27163	1	1980	
27007	57375	A	27164	1	672	
27008	57376	A	27165	1	691	
27009	57377	C	27166	1	1491	
27010	57378	A	27167	830	2592	
27011	57379	A	27168	1	3744	
27012	57380	A	27175	2	365	QWDWAPWSRGWCSSGRLGPH RSPRSGGSG\RAAGPKPCSP RSDAPAQPRGRSRRVLPLPQVQ AEPPEPWPVLPAAKPLARPEA GMAGPGGRRTTSLPRRRGCGC CCPASSCFSSLSC
27013	57381	B	27176	1	1392	
27014	57382	A	27177	79	1241	
27015	57383	A	27178	3	299	

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27016	57384	A	27179	1	812	MPTVLACPAFDSRGSPICRFDPPELTSGVRALEESPNAILTPVCGRDVKFTLEVLRGDSVEKTSRVWSGNERDQELLTEDALDDLPSFLTGTGQQTPAFGRRVSGVIEIADGSRRRKAAALTESDYRVLVGELDDEQMAALSRLGNDYRPTSAYERGQRYASRLQNEFAGNISALADAENISRKIITRCINTAKLPKSVVALFSPGELSARSGDALQKAFTDKEELLKQQASNLHEQKKAGKRSRRLHHTLLRVVAEIDKPDPDELALGLLQFAGGPLQTLFAWVSPVEAAEQQRLLAPSSGSFIP EG*DHPVRPQ*AAPGHVHYLTI PERSSQHYHPGALQE
27017	57385	A	27180	306	701	
27018	57386	A	27181	1	396	
27019	57387	A	27182	1	1263	
27020	57388	A	27183	1	873	
27021	57389	A	27184	149	421	
27022	57390	B	27185	23	268	
27023	57391	A	27186	1	363	
27024	57392	A	27187	2	398	TKFAARRPALAACAAISKIKARDLRGKKKEELALKQLDDLKVELSQLRVAKV/TQGGGAASKLSKIRVVRKSIARVLTVINQTSKGKTFREILTRGKKYKPLGPCGP*GRT RAMRRRFKPPSTEGEP*RTQGSR
27025	57393	A	27188	224	547	
27026	57394	A	27189	1	888	
27027	57395	A	27190	280	1170	
27028	57396	A	27191	1	191	
27029	57397	A	27192	438	1240	
27030	57398	A	27193	168	378	
27031	57399	A	27194	1	1362	
27032	57400	A	27195	2	918	
27033	57401	A	27196	38	397	RRCRPTMPRP/WCTCRGYQGPRKAQGG*AQDPKGCQPQARSTCLHCPPQAW/RVLVPVLPGRSGCAGQ/MAKAKAKAKDQTKAQAAAPASVPAQAPKRTQAPTKASE*ISLPT*GQKDWCDP
27034	57402	A	27197	1	1206	
27035	57403	A	27198	734	913	
27036	57404	A	27199	3	778	
27037	57405	C	27200	164	274	
27038	57406	A	27201	1	2700	
27039	57407	A	27202	1	747	
27040	57408	A	27203	164	409	
27041	57409	A	27204	152	380	

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27042	57410	A	27205	230	2579	
27043	57411	A	27206	1	2433	
27044	57412	A	27207	1	528	NHQIRNDFTISPGVKADSRTSPI PQQPASSFDITEAAVSFAKDSLA GGVAAAISKMAVAPIERVK/RV PKEHGVLSWCGNLASVIRYFPA TQALNFTFKDKYKQIFLDGVDK RSQFWRYFAGNLASGGATGAT SLCFVYPLDFAHTRVAADV GK AGAERELRGFGDCLVKIYKSDG IK
27045	57413	A	27208	1	292	MTSKDKTSRGTIQQHSRFFKI RCSAATTAGTQANRVWSGPLA NSNRPAAEAGVSTAAAPDGPPP PSVPTVDSDSLESAQFKCDNLK TCHTSHGSVMAETAVINHKKR KNSPRIVQSNDLTEAAYSLSRD QKRMLYLFVDQIRKSDGTLQE HDGICEIHVAKYAEIFGLTSAEA SKDIRQALKSFAGKEVVFYRPE EDAGDEKGYESFPWFIKRAHSP SRGLYSVHINPYLIPFFIGI.*PDK EGNEIWVDMYTVKPSGWTVRT FDKPRKRFI AFFIAGILFRAIKNH FLPRETLQCLPYILTGFRRGQSE YFSIFSNMDLADTMFL
27046	57414	A	27209	1	1452	
27047	57415	B	27210	53	844	
27048	57416	A	27211	281	624	ACSDVWSKFRLRWSPNPRCQE RPSAEKMSPHPPSAARHQASWS ARRLTQWPRPCHTQ*GQSEEH GHRSGLMPAGVTHQLPDEHAIIT PHLQSTAPIPEPKTL SHK DSSI.Q GTGK
27049	57417	A	27212	3	411	
27050	57418	A	27213	265	480	LDTILTASDGRPTYTPP*FLLLS/ CFCYGGFCYIFGCSCRALARAR AGGGGVPAAHRAAGRGSRAPE RIPPH
27051	57419	A	27214	294	620	
27052	57420	A	27215	1	420	
27053	57421	A	27216	1	342	
27054	57422	A	27217	175	244	DLLEMGSEFFVQCRTAIL.*RKQN
27055	57423	A	27218	11	951	

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27056	57424	A	27219	20	1654	ELRFPAACSQLQFSDGLHRVDQ PPSSMCVSAADLWLCVEAGKLL VVPMDGSHWFTMRSVVEKLIL RGHEVVVVMPVSWQLGRSLN CTVKTYSTSYTLEDLDREFKAF AHAQWKAQVRSLSLFLSSSNG FFNLFFSHCRSLFNDRKLVEYL KESSFDAVFLDPFDACALIVAK YFSLPSVVFARGIGCHYLEEGA QCPAPLSYVPRILLGFSDAMTF KERVERNHIMHLEEHLCQYFSK NALEIASEILQTPVTAYDLYSHT SIWLLRTDFVLDYKPKVMPNMI FIGGINCHQGKPLPMEFEAYINA SGEHGIVVFSLGSMVSEIPEKKA MAIADALGKIPQTVLWRYTGT RPSNLANNILVKWLPQNDLLG HPMTRAFITHAGSHGVYESICN GVPMMVMMPLFGDQMDNAKR METKGAGVTLNVLEMTSEdle NALKAVINDKSYKENIMRLSSL HKDRPVEPLDLAVFWVEFVMR HKGAPHLRPAAHDLTWYQYHS LDVIGFLLAVVLTVAFITFKCCA YGYRKCLGKKGRVKKAHKSK
27057	57425	A	27220	1	2022	
27058	57426	A	27221	124	205	
27059	57427	A	27222	248	443	
27060	57428	A	27223	263	415	
27061	57429	C	27224	1	717	
27062	57430	A	27225	349	1125	
27063	57431	A	27226	629	796	
27064	57432	B	27227	1	388	
27065	57433	A	27228	2	346	
27066	57434	A	27229	448	555	
27067	57435	A	27230	2	423	CEPIKVYVVGNMGAVGKTCLLI SYTTNAFPGEYIPTVFDNYSAN VMVDGKPVNLGLWDTAGQED YDRLRPLSYPQTDVFLICFSLVS PASFENV/LCKGAVKYLECSAL TQRGLKTVFDEAIRAVLCPPPV KKRKRKCLLL
27068	57436	A	27231	1	1503	
27069	57437	A	27232	1	635	

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27070	57438	A	27233	3	1107	AVFLSFGWWPLPGIGFQSAEGE AAWTAAPAPSAPPPSKPRARPP RPEPAASYLSALPPPPRPSERPS MQAIKCVVVG DGAVG\KT\CLL I\SYTTQCHFLGEYIPTVFDNYS A\NVMVDGKTGEIWGLWDTAG QEDYD\RLRPLASYPANRMC*S*I CFS\LVSPA\SFENV/LVQKWYPE VR\HH\CPNTPIIPVGT\KLDLRD DKRHDSRNLKEKKLT\PITYPA GS*AMAK/ERLGAVKYLGCAP AAHTSEGLKTVFDEAIRA\VLCP PPVKERGRENCPLPVVNVSAPSF LGSCPLGTFCRLCSKKNKKKKQ KKKNNGGAFALNANFLLQINF IKPFFEPISNFKVLFVLNVRVQT HILLKFSPKMTSLLKALFFK
27071	57439	A	27234	3	203	
27072	57440	A	27235	1	112	LGNTWG*QPCRLKIWLSLEFT KINVIRHMWKKFKRL
27073	57441	A	27236	1	513	QHWGRYLKRAFEQWQVPRFG HMPDPGPVKPLQPVETRG DYKFLLFHFWDEWLYKFSAD FFIPGKLCAIVF*KRL*RP GAVAYACNPSTLGSRGWIT *GQEFETSLTNKEVKVLSID QNRNFKLRSIGWGEEFSL SKHPQGTEVKAITYSAMQV YNEENPEVFVIIDI
27074	57442	B	27237	125	302	
27075	57443	A	27238	93	432	
27076	57444	A	27239	3	279	
27077	57445	A	27240	263	446	
27078	57446	A	27241	237	369	
27079	57447	A	27242	389	836	
27080	57448	A	27243	1422	1580	
27081	57449	A	27244	103	444	RSLTCPGDMFPVVLVINIQLLLT YANFCSWLES LPRKWDFLFYCI VRLQIFQTFMLCFLNLTPLRNF FYQIP*IISLKFKVPQISKA EAKCHQSLCIGRVTFIPVPN KFFISI
27082	57450	A	27245	3	242	MHRNAQH HVKTAKPWGLHPL KPQPK*YSGPF*PPLEQLRCKAT GP*GCTQQGGPGPGPQNNFSL LGLQACDGRDCHEGL
27083	57451	A	27246	506	664	
27084	57452	A	27247	1	1515	
27085	57453	A	27248	269	541	RFPNLNS*LLYTRGLTPHESCQ GLGLAPSEAMAQTIPWPLLATA RLAVTGNQILMQISAAGLNFS SENGAFISIALSGCKFFKLLCSAS
27086	57454	A	27249	1	564	

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27087	57455	A	27250	2	235	
27088	57456	A	27251	3	1393	
27089	57457	A	27252	28	271	
27090	57458	A	27253	12	485	RMAFCRASQADQDRFICIYPAY LNNKKTIAEGRRIPISKAVENPT ATEIQDVCSAVGL\NVILRKIKM YF*EWNRDVQYR\GRVRVQLK QEDGSLCLVQFPS/RLYTKPNF WFLGKSVMLYAAEMIPKLKTR TQKTGGADQVFQQGEGS*KGK GKQKEVT
27091	57459	A	27254	1689	2176	APPGMGAASLCAFGLLVTFAT ASPRYAMVQPSFRLGTLGQA EADPEFVSSGSVPPSFLSPLLPA APGARRG*LQRGDLGRQAPPPA PGCAPGLA*GRPPAPHL*RLCSR PTFFPPPANSRLALADSPPPRQ LQGARP*PVPGRLLTSTGTTPRPL PRPLGP
27092	57460	A	27255	263	439	
27093	57461	A	27256	1	499	MSELPFTIATKRIKHLGIQLTRD VKDLFKKNYKPLFNEIKDDTNK WKNIPCLWIGRINILKMAILPKV IYRFNAIPIKLLMTFFTEMENTT FKFMWNQKR/CPHCQDNPKPK EQSWRHHAT*LQTILOGYSNQN SMG/TWMKLETIILSKLSQGQK TKHRMFSLIGGN
27094	57462	A	27257	1940	2062	
27095	57463	A	27258	1232	1432	
27096	57464	A	27259	168	1189	
27097	57465	A	27260	1	1760	
27098	57466	A	27261	453	543	
27099	57467	A	27262	873	962	
27100	57468	A	27263	8	411	FSRCRCSGR/YLCMASCL/CFHH CWWMASHHWPI*RTQV*CAC WEGRHLGCAPKCLSLLGFTRI LACVLWLPILQSVIPIHIQVSITV RVLFAAAHDEARASEATFQESG GPYPLLSTPLILLKAVVVLMLD AHAS
27101	57469	A	27264	1	552	
27102	57470	A	27265	828	1211	
27103	57471	A	27266	428	655	DQKVPPLEMYFGIEVKSLKQLR SISA*SLFSSRALKEDSGLLKLK QPRSSGVIPRRFIVSWPWKMVR QPVLF SVG
27104	57472	A	27267	1	855	
27105	57473	A	27268	1	1261	
27106	57474	A	27269	164	260	

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27107	57475	A	27270	147	224	RLTLPDHLGSLLDHHR\ALGNS YSGG
27108	57476	A	27271	1	837	
27109	57477	B	27272	184	288	
27110	57478	A	27273	1	286	
27111	57479	A	27274	1	699	
27112	57480	A	27275	1	3660	MTGICYTEDERSYKKNAQPTA ASKKQKETQKFCLRVDGQQKV KLSVLQEKSALTVQLKSQKFL GHPTAGRGRSELCLDLPDPED PVALETRSVGTWVRERDLGMP DGEAALAAKVAVLETQLKKAL QELQAAQARQADPQPQAWPPP DSPVRVDTVRVVEGPREVEVV ASTAAGAPAQRAQSLEPYGTG LRALAMPGRPESPPVFRSQEVV ETMCPVPAAATSNVHMKKISI TERSCDGAEMKWEDQNIGD
27113	57481	A	27276	1059	1229	
27114	57482	A	27277	2	4735	
27115	57483	A	27278	415	825	SCADFQDYWDQREYTYNRPH ASRRIVLDFLLFPEW/PTFVAFW APLFNPSKRASLYRFLCISLSF GSHWGSVPGNWVLTYSWG/SL VISRCMFL*PLSCCLEHSPFICV KEEHEQLVAISPSGVMGLDNSL EQIN
27116	57484	A	27279	1	1326	
27117	57485	A	27280	2976	3068	VWTALTNRLGQQVSI CG*PGTE DSKGDWLL
27118	57486	A	27281	78	220	APTSLS*SYFKNCGHGRLRWV ITHIRLVISWATYLVQNNIIQTR LF
27119	57487	A	27282	1	1077	
27120	57488	A	27283	307	922	QVVPSSLSAISQSPAPCG/CSP*G PSPGAT
27121	57489	A	27284	1	4560	
27122	57490	A	27285	87	237	LLFFQLGGDAFSFKFSSGVNF\R NSLICQAWGKRVSALLCILSE YTSPL
27123	57491	A	27286	1	246	
27124	57492	A	27287	46	396	
27125	57493	A	27288	1	552	
27126	57494	A	27289	3	418	AEKCPCLGAFGFGWDHPRRPG SWGAWSESGSPPARIVKMSLR KQTPSDFLKQIIGRPVVVKLNS GVDYRGLVLA CLDGYMNI ALE QTEEYVNGQLKNKYGD AFI\R GNNVLYIISTQKRPDVRTPKRA TLFIVGYIFL
27127	57495	A	27290	202	450	

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27128	57496	A	27291	304	642	
27129	57497	A	27292	75	393	
27130	57498	A	27293	1	678	VFGLGSVAHMLLNKTFGSYLG VNLGFGFGVTMGVHMAGRST GAHMNAAVSLTNCALGRVPW RKFPVYVLGQFLGSFLAAATY SLFYTAILHFSGGQLMVTGPVA TAGIFATYLPDHMTLWRGFLNE AWLTGMLQLCLFAITDQENNP ALPGTEALVIGILVVIIGVSLGM NTGYAINPSRDLPP\RIFTFIAGW GKQVFRWHHLPLGLHWLHHPT GAPEIGGFCCGV
27131	57499	A	27294	2	1694	
27132	57500	A	27295	1	356	GIFVTYLPDHMTLWRGFLNEA WLTGMLQLCLFAITDQENNP LPGTEALVIGILVVIIGVSLGMN TGyAINPSRDLPP\RIFTFIAGWG KQVFRYFPCPGPIPLSFSVGPLC VEGWGVM
27133	57501	A	27296	1	544	
27134	57502	A	27297	320	610	LREYtINIHTAHPMEWASKKRA PRALKEIRKFAMKEMGTPDVRI DTRLNKA V WAKGIRNVPYRIR VRLSRK\RNEDEDSPNKLYTLV TYVPVYHFQK
27135	57503	A	27298	1	303	
27136	57504	A	27299	1	1311	
27137	57505	A	27300	1	3126	
27138	57506	A	27301	2	779	NRVLLAMVNPTVFFDIAVDGEP LGRVSFEVRGLDTKK*LLI*SIK LC*QIG\LFADKGPRGTA*FSL* ATGEKGFG*GVPCFHRIPGFM \CQG\GDFTRH\NGT\GGKSHLW GRNLKDENFI\KHTGPGILSHG KMLDPNTNGSQFFICTA\KTEW LDGK\HVVFVGKVKERHEILWEA MGALLGPRNGKTQQEESPIVPG GQLRIKFDLVFYSLTTKIIPFCF KSTPPPHLLASILESLCSRLQFP FGFHVFLVPCA
27139	57507	A	27302	143	390	
27140	57508	A	27303	249	1516	

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27141	57509	A	27304	2	645	NRVLLAMVNPTVFFDIAVDGEP LGRVSFEVRGLDTKK*LLI*SIK LC*QIG\LFADKGPRGTA*FSCL* SIEEKGFGL*GVPCFHRIIPGFM\ CQG\GDFTRH\NGT\GGKSHPM GKKFE\DENF\ILKHTG\PG\ILSH GKCLDPNTNGSQFFICTAKTEV VGMAKHVVFWQK*KKGMKYC GRPWERFG\SR\NGKTQQRKITI C*LVGQLRNKVLTWFF
27142	57510	A	27305	72	387	VCLQHGPWSSSLKHVQGWRRD CHGLSLGPRTHVQAGTLPKPTL WAEPGSVITQGSA\VTLCQGI LQTQEYRLYREKKTAPWITRIP QEIVKKGHDIPIPSITWEHTG
27143	57511	A	27306	1	322	
27144	57512	A	27307	1	1125	
27145	57513	A	27308	1	1419	
27146	57514	A	27309	198	1634	
27147	57515	A	27310	78	216	
27148	57516	A	27311	1	489	
27149	57517	A	27312	18	463	AEGVEPGSPRVVLLLESEQFLTE LTRLFQKCRITSGSVYITLKKYD GRTKPIPKKGTVEGFEPADNKC LLRATDGKKKISTVSSKEVN* VFRWLISNLPLGANMDGLKKR DKKNKTKKTKAAAAAAGP AAAATAATTAATTAATAAQ
27150	57518	A	27313	1	1242	
27151	57519	A	27314	147	965	DPPSPVPAPPSSPRDGHFLVPDA TMAEEQPQVELFVKAGSDGAK IGNCPFSQRLFMVLWLKGVTFN VTTVDTKRRTEVQKLCPPGGEL PFLLYGTEVHTDTNKIEEFLEA VLCPPRYPKLAALNPESNTAGL DIFAKFSAYIKNSNPALNDNLE EGTPGKP*RFLDNYLTSPLPEEV DET\SAEDERCLSDGTFLDGNEL TLADCNLLPK\LHIVQVCKKY RGFHHPFRPFRGVAFGYL\SNA\ YARENFRPPVPDDEEIELAYE QVAKALK
27152	57520	A	27315	1	933	

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27153	57521	A	27316	63	641	FAKMTDHHKGERGEATRYMFSR PFFKTMGVVPCGHNN*RFYK\K GDIVD\IKGMGYCVQNGMP\HK CYHGVKTGRSLTIVTPACLLPLL *TNQF*GKVFS\KRINVRIEHIKH \SKSRDSFLKRVKENDQKKKEA QEEGT\WVQLKRQPAPPREAHF V\RTNGKEPEL\LEPIPYEFHGIN RCPKKKIKDLWATKKKKK
27154	57522	A	27317	1	390	
27155	57523	A	27318	75	394	IWGDVEKGKK\IFIMECSQCHT VEKGGKHKTGPNLHGLFGRKT GQAPWDTPYTAANKNGIHWG EDTLMEYLENPKK\YIP\GTKMI FAGIKKKEERADLIAYLKSY
27156	57524	A	27319	2	529	ERQTRHAGGVRRGPRPKLQRD KAAAAAVLGAVRKRPSVVP AGQDPALSTSHPFYDVARHGIL QVAGDDRFGRRVVTFSCCRMP PSHELDHQR\LLEYLKYTLQY VENDYTIVYFHYGL\NSRNKPS LGWLQSAYKEFDRKYKKNLKA LYVVHPTSFIVLWNILKPLISH KFGKK
27157	57525	A	27320	287	445	
27158	57526	A	27321	2	362	
27159	57527	A	27322	30	365	EEAETVLVGQLKQLSSCLAVH KYRPETKQEKKQRLARAEEK AAGKGDVPTKRPPVLRAGVNT VTTLVENKKAQL\CRKMGVP YCIKGGKARLGRLVHRKTCTTV AFTQVN
27160	57528	A	27323	3	432	NSRVDDFVAAQDAKGKKVAP APAVVKKQEAKKVVNPLFEKR PKNFGIGQ\QRLARAEEKKAAG KGDVPTKRPPVLRAGVNTVTT LVENKKAQLVVIAHDVDPIELV VFLPALCRKMGVPYCIKGGKAR LGRLVHRKTCTTVFT
27161	57529	C	27324	62	217	
27162	57530	A	27325	1	1545	

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27163	57531	A	27326	2	801	PKGKKAKGKKVAPAPAVVKK QEAKKVVNPLFEKRPKNFGIGQ DIQPKRDLTRFVKWPRYIRLQR QRAILYKRLKVPPAINQFTQAL DRQTATQLLKLAKHYRPETKQ EKKQRLLARAEKKAAGKGDVP TKRPPVLRAGVNTVTTLVENK KAQLVVIAHDVDPIELVVFLPA L\CRKMGVPHYCIKKGKARLGRL VHRKTCTTVAFTQVNSEDKGA LAKLVEAIRTNYNDRYDEIRRH WGGNVLGPKSVARIAKLEKAK AKELATKLG
27164	57532	A	27327	550	827	DVSWAGRSEDHRWIFLKEQRT GGPPK/ERSRSESRHQISCMCAA STWMERTAYGGSHRELLQQL PQEHTRKTLPLQQTSAWTYRLF HTSCEI
27165	57533	A	27328	908	1331	GDMRGRREGGFLGRRTAMRC GCSPGIVREADNLVKLSRPSTV RVTRSSASVMVLT MPLAPATFL RVNCWAG/RGR/C*SQNETVSR TRCEEGR**KDYRVEEQRLRKN WDLARPGEEQLAPSPEKRDPL RVKDQGRHPCVV
27166	57534	A	27329	1	1134	
27167	57535	A	27330	62	310	
27168	57536	A	27331	243	578	
27169	57537	A	27332	324	995	NLVPRPGTWIRGLPLGDHSPVL LLFAP*ERSTYDLRSSDRPAQET SHQFQIRERQRRHVLSVDPKLR RRSRTGKAAPWCLIIAGTPL*L YTHVSRVSDHAGMPALVLHP* R/LSPTFLGKGQHALKGLKPVIT RLLQHGLLKPINSPFPSPILPVK PDKAYKLVQNLRLINQIVLPIHP VVPNPYTLSSIPPSTTHYSVLD LKHAFFTIPLHPSSQPLFAFT
27170	57538	A	27333	1	1860	
27171	57539	A	27334	1	957	
27172	57540	A	27335	97	826	
27173	57541	A	27336	245	392	
27174	57542	A	27337	736	1300	
27175	57543	A	27338	590	891	
27176	57544	A	27339	1256	1654	VQPVRLVSGMQHPGSGWRRRL WGQHSTSLTSKEHLHISKRNI DNLVQRNMPISNEKPKCPELPP FPSCLSTVHFIFVVVQTVLFIGY IMYRSQQEAAAKILLTTIFLCT SSICVQNDVVLREFKYLNCFIV
27177	57545	A	27340	295	852	

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27178	57546	A	27341	3	446	ILAWFGSIAEAPSAAWLCGSSQ GRYCSSFNRVVRQNSSDAKVV NVPKTRITFCKK\CGKHQPHKV TQYKKKGKDSLYAQGRRRYDRK QSGYGGQTKPIFRKKAATTKKI VLRLECVEPNCRSKRMLAIKRC KHFELGGDKKRKGQVIQF
27179	57547	A	27342	1	565	
27180	57548	A	27343	1	1050	
27181	57549	B	27344	1	2109	
27182	57550	A	27345	2916	3229	
27183	57551	A	27346	3	671	AGILAAIREANMGAYKYIQEL W/RKKPSDVHAFRLR\RCGQT RSFFVFTGVPRPTRPDKARRLG YKAKQGYVIYRIRVRRGGRKRP VPKGATYGKPVHHGV\NPA*KF ASKALQVPLPEGTEAGR\HCGG S*ESLNSYWVGEDS\TYKFFEVI LIDP/YSHKAIRRNPDQ\WITK PVHKHREMRGLTSAGRKSRL GKGHKFHHTIGGSRRAAWRRR NTLQLHRYR
27184	57552	A	27347	1	1646	
27185	57553	A	27348	2	2600	
27186	57554	A	27349	1	2403	
27187	57555	A	27350	100	520	
27188	57556	A	27351	1	570	
27189	57557	B	27352	1	837	
27190	57558	B	27353	1	1434	
27191	57559	A	27354	1	2379	
27192	57560	A	27355	3	952	IDWAPKSDRIVTCGADRNAYV WSQKDG VWKPTLVILRINRAA TFVKWSPLENKFAVGSGARLIS VCYFESENDWWVSKHIKKPIRS TVLSLDWHPNNVLLAAGSCDF KCRVFSA YIKEVDEKPASTPWG SKMPFGQLMSEFGGSGTGGWV HGVSFSA SGRSLA WVSHDSTVS VAIDASKSVQVSTLKTFLPLL SVSFVSENSVVAAGHDCCPMLF NYDDRGCLTFVSKLDIPKQSIQ RNMSA/LWERFR\NMDKRATTE DRNTALETLHQNSITQVSIYEV D\KQDCRKFCCTTG\DGAMTIW DFKTF\ESSIQGLRIM
27193	57561	A	27356	3	134	
27194	57562	A	27357	1	478	
27195	57563	A	27358	1	623	
27196	57564	A	27359	425	667	
27197	57565	A	27360	121	401	
27198	57566	A	27361	1	1818	

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27199	57567	A	27362	552	2325	
27200	57568	A	27363	693	1270	
27201	57569	A	27364	18	146	
27202	57570	A	27365	270	683	
27203	57571	A	27366	1	1398	
27204	57572	B	27367	1	1152	
27205	57573	A	27368	40	538	SPSPKDSPGVRVVGISCYIGGPCQ QRLSPVRASKMTKKRRNNGR A\KKGPRHVRGPSPLKFLPPSSC HLTVPRCRAQGTRPIKKFVISK P*VEAAAVRDISEASVFDAYL\ LPKLYVKLHYCVSCAIHKQK*S GNRS\REA\RKTRTPPPRFR\PGG *LPHGPPTKSP
27206	57574	A	27369	204	401	
27207	57575	A	27370	3	980	
27208	57576	A	27371	2124	2836	
27209	57577	A	27372	139	8892	
27210	57578	A	27373	1	2592	MAGLGASLHVWGWLMLGSC LARAQVRASAPRHLFSRSLRRG LSFSDTEARCARELIHVHTSTN APARTEAYPAGSAEPPRRPRAG REHSFFSQRYVPLPLGGALGS GPAKLPPPRAPCPVRFCADLET LCGALDCYKVRGGAAPARPAP RPAGGIQVSSLSGFGTESLPGGN PFPHRDHRESGTMDSPSLTVAT PLSLTPPIPRELACGDWRRVGG GAGGGGLRRRGLGGDKAGKR KSSDLPCGPGFLQSLQKRRHW ESGLGLPGCGCESELVSGCGAP TLRQHIIPEAGRNGVKEKSADL GCGGSQGLRAKKGTNPGIENG KRKGKEGMLDAWICRRSAFGP GREKLGGEVGCNDKGKIRFIE VKMSKKISGGSVVEMQGD RRIIWELIKEKLIFPYVELDLHSY DLGIENRD/ATNDQVTKDAAEA DKKHNV\GVKCATITPDEKRVE EFKLKQMWKSPNGTIRNILGGT VFREAIICKNIPRLVSGWVKPIII GRHAYGDQGFSGSNMQNAIMK KLKWLHLARVGKFS DANAKFY CRLYYAGEFHKMREVILDSSEE DFIRLSHSSPWQARGGKSGAA FYATEDDRFILKQMPRLEVQSF LDFAPHYFNYITNAVQQKRPTA LAKILGVYRIGYKNSQNNT LKDLLVMENLFYGRKMAQVFDL KGSLRNRNVKTDGTGKESCDVV
27211	57579	A	27374	2	2138	

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27212	57580	A	27375	1	2355	
27213	57581	A	27376	249	1544	EIYSLSRFIEVKMSKKISGGSVV EMQGDEMTRIIEWELIKEKLIFPY VELDLHSYDLGIENRDATNDQ VTKDAAEAIAKKHNVGVKCATI TPDEKRVEEFKLKQMWKSPNG TIRNILGGTVFREAIICKNIPRLV SGWVKPIIIGRHAYGDQYRATD FVVPGPVKVEITYTPSDGTQKV TYL\VHNFEEGGGVAMGMYNQ DKSIEDFAHSSFQMALESGWPL YLSTKNTILKKYDGRFKDIFQE MYDKQYKSQFEAQKIWEHR L\ID\DMVAQAMKSEGGFIWAC KNYDGDVQSDSVAQGYGSLG MMTSVL\CPDGKTVEA\EAH GTVTRHYRMYQKGGQDVHPIPI LASIFAWGPEGL\AHRAKLDNN KELAFFANALEESFYETHE\AGF MTKDLAACIKGLPNVQRSDYL NTFEF\MDKLGKIKLAQAK
27214	57582	A	27377	1	692	
27215	57583	A	27378	251	2150	
27216	57584	C	27379	93	293	
27217	57585	A	27380	308	534	
27218	57586	A	27381	2	856	
27219	57587	A	27382	3	327	AQELHTFEVTGQETVAQIKAHV ASLEGIAPEDQVLLAGAPLED EATLGQCGVEALTTELEVAGRM LGG\AKQEKKKKKTGRAKRRM QYNRRFVNVPVTFGKKKGPNNA
27220	57588	A	27383	150	456	
27221	57589	A	27384	651	835	
27222	57590	B	27385	1	2193	
27223	57591	B	27386	109	714	
27224	57592	A	27387	150	458	
27225	57593	A	27388	1	2055	
27226	57594	A	27389	1	804	
27227	57595	A	27390	645	1828	
27228	57596	A	27391	899	1216	
27229	57597	A	27392	79	156	
27230	57598	A	27393	1796	2215	
27231	57599	A	27394	107	724	
27232	57600	A	27395	854	926	PLEIPHEPPPGRG*HAPQLPRGQ
27233	57601	A	27396	2	413	
27234	57602	A	27397	54	442	FAKMTNTNLNRRGTRYMFSRP FRKHGVVPLATYMRIYKKGDI VHIKGMGTVQKGMPhKCYHG KTGRVYNVTQHAGVIVVNKQG KKGILAKRINVRJEHITHSKSRH SFLKRAKENDPEYE\EALENGT

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27235	57603	A	27398	1	490	
27236	57604	A	27399	150	536	NCKISFLHFCYIFVKALKRISAL SRGKILAKRINVRIEHIKHSKSR DSFLKRVKENDQKKKEAKFKG TWVQLKR/QGKNLVYISLVLRA L*G*DLTHHHLLFPFFFL**PAPP REAHFVRTNGKEPELL
27237	57605	A	27400	336	928	
27238	57606	A	27401	13	724	INPPPPPPFRPEPPSSSKFAKNDGP QRGKRRGTPIIMFS/RGPFKKT GVVPLAHIFMRIYKQRCDVFI QGEWGTLFQKGNCPHKVVTHTG QNLEGVLPMTVPA MLVGHLL* NKQV*GQRFLPKRNL MWRI*A HLRHF*GARD/RASLKT CGREN GSRKKERKPKGGKVTWGFQK RRHLGFPPQEEATFLLKEPIGGR EP*ACLEPYFPYWISWG INRVF KKKIKGPSGLQKKKKKKVD
27239	57607	A	27402	1	759	
27240	57608	B	27403	1	372	
27241	57609	A	27404	1746	2966	DMKNGAKEGESYLLQCLPPSP LPSPPPSPSPPPPPPPSPSPSP SPSPPPSPSPSPSPSPSPPTSP SPSSSPSPSPSPSPSPSLSPTPPP PSPSLPPLPSPSLPPSPSPSPSP PSPSPSPSPSPSPSPSPSPSPSP PPSPSPSPSPSLPPSPSPSPSPSP PSPSLPSPSPSLSPSLPPSPSPSP HHHHHHHHHHHHHHHHHHHHHH HHHHHHHHHHHHHHHHHHHHHH HHHHHHHHHHHHHHHHHHHHHH HHHHHHHHHHHHHHHHHHHHHH HHRHCHHRRHHHHRQH HHHHH HHHHHHQH HHPQTLH*PSESQ HIVGAQ*MLHCHSLCVYIQGSH SVRKFLVLKQKLSMGMVLP GDLEHCGACLD CDQDWRCAM PSHKYPPKHAHCEGCLC
27242	57610	A	27405	150	462	ICEGRTCIFEEPCNCSSLYVRSN GGNHSHSTTTFKYNGSNWIPR WQGPSGSTQPSKARRPVAFSQ NCAMEKGN*SDILGTTEHWL*A DIDSRGPKMSLQSSS

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27243	57611	A	27406	142	1285	SRMSKAFGLLRQICQSILAESSQ SPADLEEKKEEDSN\MKREQPR ERPRAW\YPHGLVGLHNIWT DLACLSLIQVFVMNVDFTRIL KRITVPRGADEQRRSVPF\QML LLEKMQDSRQKAVRPLELAY CLQKCNVPLFVQHDAALYLYK LWNLIKDQITDVHLVERLQALY TIRVKDSLICVDCAMESSRNSS MLTLPLSLFDVDSKPLKTL\EDG LHCFQPRELSSKSKFCENC KKTRGKQVLKLTHTLPQTTLTIHL MRFSIRNSQTEKDLATPLYFPQS LDFKPRSFQKRESC\DA\EEQS GGQYELFAVIAHVGMADSGHY \CVYIRNAV\DGKW\FCFNDNIC LVS\WEDIQCTYGNPNYHWQET AYLLVYMK\MEC
27244	57612	A	27407	1	1077	
27245	57613	A	27408	3	242	
27246	57614	A	27409	213	928	EGPARQRLSPVRASKMTKKR RNNGRAQKRAAAHV\RGPSPLK/ CFPSGPLPPNCAR\CVPQGTRPI KKF\VIR\NIVGGRSRQGHISEAS RLRMPISLPLK\YV\KLH\YC\VSC AIHKQK*FR\NRS\RESPAKTRTP PPRF*DLAGGCPTVPPPKAHD LGPYCRHQTCVNWVCCRQATI LGKELCGQIRKLPSQQMSPGWL PSGYSCWLYKYKTEATTALQS RGEVYHPLQALWSRPPGRDPL
27247	57615	A	27410	1	267	
27248	57616	A	27411	257	322	
27249	57617	A	27412	2	176	
27250	57618	A	27413	218	923	
27251	57619	A	27414	2	429	TKFAARRPALAACA\AISIKAR DLRGKKKEELLKQ\LDDLK\VE LSQLRVA*VTGGAASKLSKIRV VRKSIARVLT\DINQTS\GKKTFR EILTRGKKYKPLGPCGP*GRTR AMRRRLNKHEENLKT\KKQQRK ERLYPLRKYAVKA
27252	57620	A	27415	1	1146	

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27253	57621	A	27416	2	670	IAGEITRRGSRARPRPGPQCPPG PPGTAMIKAILIFNNHGKPRLSK FYQPYSED TQQQIIRETFHLVSK RDENVCNFLEGGLLIGGSDNK\ LIYRHYATLYFVFCVDSSESEL GILDLIQVFVETLDKCFENVCEL DLIFHVDKVHNILAEMVMGGM VLETNMNEIVTQIDAQNKLEKS EAGLAGAPA\RAVSAVKNMNL PVEIPRNINIG\DISIK\VPNLPSEK
27254	57622	A	27417	5	379	
27255	57623	A	27418	536	675	LEWSSAKFPTAVGVSLLLSSVC RSQ*FLMDAMSRMDLVRYTSA RVS
27256	57624	A	27419	2	1220	
27257	57625	A	27420	435	552	
27258	57626	A	27421	5	379	
27259	57627	A	27422	1	1062	
27260	57628	A	27423	17	467	
27261	57629	A	27424	105	355	
27262	57630	A	27425	283	466	APRSARPIVHGKATRPKPRNL LDKDMFSKSDPLCVMTQGMEN NKQWR\EFGRTEVIDNTLN
27263	57631	C	27426	167	379	
27264	57632	A	27427	164	1185	
27265	57633	A	27428	1	873	
27266	57634	B	27429	20	523	
27267	57635	A	27430	3	1225	
27268	57636	A	27431	1	884	GTRDATAEENRVLLAMVNPTV FFDIAVDGEPLGRVSFEVRGLD TKK*LLI*SIKLC*QIGGSSIFITS D*KNSCLPLIVQQCLLFLRILPL FADKVPKTAENFRALSTGEKGF GL*GVPCFHRIPGFM\CGQ\GDF TRHNGTGKSIYGEK\FEDENF ILKHTGPGILSMANAGP\NTNG SQFFICTAKT\EWLDGKP\VVFG KVKE\GMNIVEAMERF\GSRNG KT\SKKITIADCGQLRIKFDLVF YSLTTKIIPSGSPRESTPPTHLLA SILESLSRLQFPFGFHVFLVPS
27269	57637	A	27432	27	410	LQDEATGCQKLEI VDDERKLRT FYEKRMATEVAADALGEEWK GYVVRISGGNDKQGFPKQGV LTHGRVRLLLSKGHSCYRPRRT GERKRKSV\RGCIVDANLSVLN LVIVKKGEKDIPGLTDTTVPR

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27270	57638	A	27433	93	866	TVSFPATGC\QKLVIE\DDERKL RTFYEKRMATEVA\ADA\LGEE WKGYYVVRISGGNDKQGFPMK QGVLTG\RVRLLL\SKGHSCY RPRRT\GERK\RKSSSVGC\VD KSWSVLQLGLLLKKKKK*RRIF PG\LTDTTVPRRLGPQK/RASRIK KLFNLSK\EDDVRQYVVRKPLN KEGKKPRTKAPKIQRVTPRVL QHKRRRIALKKQRTKKNKEEA AEYAKLL\AKRMKEAKEKRQE QIAKRRRLSSL\RASTSKSESSQ
27271	57639	A	27434	2	401	
27272	57640	A	27435	1373	1838	
27273	57641	A	27436	1	257	MNRQLSDSYTEDTKEPSDVTTS ERTRSPPGSAKTTMIDTLKKLQ DV\QKLRTPKIPQSQQQICWNN MSRLRDQS*RSSKKRQRLWK
27274	57642	A	27437	247	831	
27275	57643	A	27438	1	993	
27276	57644	A	27439	267	281	CNCPNIFEARWVNLKSLSKIHE* RPFQP
27277	57645	A	27440	274	482	
27278	57646	A	27441	1	219	
27279	57647	A	27442	1	681	
27280	57648	A	27443	11	1094	
27281	57649	A	27444	51	65	NNTFLKYC*IDFND*DCGGEDIS PN*LGLPIPLSMVLCEIHF
27282	57650	A	27445	1	1563	
27283	57651	A	27446	3	318	
27284	57652	A	27447	1	294	
27285	57653	A	27448	7	259	
27286	57654	A	27449	29	191	
27287	57655	A	27450	2	519	KSQDYKSLNATCAGGTSFSGC ARRLLLSTCSSGWRSGGLSLRG GKMELEA\MSRYTQSEPQLSS PHLTVVLLAIGMFFTA\WFFVY EVTSTKY\TRDIYKEAPHPP*VA LTPSMGFGVLF\LL\WVGIRV SHPRVTTQNGFHWKPAFCKINF FFYLF\AWEVFPPAAHNKVQML
27288	57656	A	27451	144	386	VCECKMPKVQPNFTHWSRS*N DDLNRSSLWQA*PQAASVEIIL RS
27289	57657	A	27452	462	672	
27290	57658	A	27453	1	475	
27291	57659	A	27454	1	741	
27292	57660	A	27455	62	390	
27293	57661	A	27456	549	641	
27294	57662	A	27457	456	774	
27295	57663	A	27458	2852	2935	

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27296	57664	A	27459	699	761	
27297	57665	A	27460	399	434	
27298	57666	A	27461	683	1661	
27299	57667	A	27462	1	95	
27300	57668	A	27463	3	517	
27301	57669	A	27464	6	401	RGLTEVPETSGGRVSVGAMAK HHPDLIFCRKQAGVAIGRLCEK CEGKCVICDSYERPCTLVRICDE RNYGSYQGRVCICGGPGVSDA YYCKEVHHPGERTRDGC\SKIV NLGSSKTDLFL*TAKNTGFQER
27302	57670	A	27465	1	321	
27303	57671	A	27466	67	348	
27304	57672	A	27467	1	642	
27305	57673	B	27468	193	445	
27306	57674	A	27469	32	216	AGPSQPTNQTTGKSPQLQQDYF PRRSYRCSHRLIICLNVIGDAV* STVQLKALMLRGRNYK
27307	57675	A	27470	214	440	QDRWGLAPHPPAPGLPLPGPTN QTTGKSPQLQQDYFPRRSYRCS HRLIICLNVIGNAL*STVQLKAL MLRGRNYK
27308	57676	A	27471	35	3801	
27309	57677	A	27472	1	2901	
27310	57678	A	27473	1	1317	
27311	57679	A	27474	1698	3255	RVACPCVVWLCWAHWELWRT EEVEGGIAGTDVAR/EASDFILT DAIFSSIVKAVMASLQRRGSRE L*LPAAGVWKLQTDFA*QSI/AE EGIECKSIKPVLAKEYLVWTRLF VGLLAELRDESAPETTPAGRRR QPQVWSGARQTCGQRTERLAG GLGEMQACSGNLGAEKEKQSK KLAGGWPMSPSTSLHALGPKLV PAKSQRHRAEHMSTWQVGVVS SSYFTGNLVGTLTGYVIKRIKF NRSYYLASFIFAAGCAGLGLMI GFWSWLAWRFVAGVGCAMIW VVVESALMCSGTSRNRGRLLA AYMMVYYYVGTFLGQLLVSKVS TELMSVLPWVTGLTLAGILPLL FTRVLNQQAENHDSTSITSMLK LRQARLGVNGCIISGIVLGSLYG LMPYLNYKGGKSSPTPAVRPA RHNSLPGPEAKKYRPGFIIGLTS CIAFSVQAANVDEYITQLPAGA NLALMVQKVGASAPAYDHSQ QMALPASTQKVITALAALIQLG PDFRFTTTLETGKNVENGVLKG

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27312	57680	A	27475	152	468	GLGIQ*LLCCSSFCFQLLPEKKE GRLAGDAGAARPAKSGRFLGL TSGLPSEWSARTGPEPPKSLSG GGELNGSSLGFGTQDGRGTRE GRDRGLHPPPPQYQHSP
27313	57681	A	27476	541	4172	
27314	57682	A	27477	3	1110	
27315	57683	A	27478	340	1032	
27316	57684	A	27479	2	779	
27317	57685	A	27480	3	281	
27318	57686	A	27481	519	737	VPDLLLLQLPNAGLCGHFCDPGD SLQCLCHQGPFGQAQNWAAV WADTKPAAGAEAREPGDLA*L VPPTWSPTR
27319	57687	B	27482	1	915	
27320	57688	A	27483	68	145	
27321	57689	A	27484	1281	1433	
27322	57690	A	27485	171	708	
27323	57691	A	27486	1	270	
27324	57692	A	27487	278	588	VYIKRMPKKKV/SEGTIKEEPKR RLAQLSAKPAPAKVEAKLKKA AAKDKSSGKNVQTKGKRRAK GKQAKVANQETKEDLPAENGE MKTEESPASDEAGEKETKSD
27325	57693	A	27488	304	513	PVRHGFAFFQDKSSDK\VQTKG KRGAKGKQA\EVAN\QETKEDL PVD\SGETKTEESPSLLIEAGEK EAKS
27326	57694	A	27489	1	435	
27327	57695	A	27490	3	273	
27328	57696	A	27491	9	293	
27329	57697	A	27492	1	504	
27330	57698	A	27493	1	529	IPPPRLFLPVATEVARVRLPPP PPQNAARDALTSPSYLAWASPR KQTPSPPAKDIK\KILEQRGYP KADDDR\LNKVI\SEAEWKYTL KDVIAPGVLASLPSVP\AGGAV AVSACPQALAAPCCLGSAPA\A AEGEEKMKKKKEEVLKES\DDD\ MGFGPFELKSLPPLQIKGLFYTS R
27331	57699	A	27494	1	396	...
27332	57700	A	27495	2	398	
27333	57701	A	27496	1	702	
27334	57702	A	27497	1060	1446	
27335	57703	A	27498	46	216	HPLQLSVIPFLPVK*HVDQMGE AD/CVLSN*VNCLASRFLAVSV ALRSSRFITMVP
27336	57704	A	27499	1	1152	
27337	57705	A	27500	126	184	
27338	57706	A	27501	238	498	

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27339	57707	A	27502	1	852	
27340	57708	A	27503	3	171	
27341	57709	A	27504	1064	1302	
27342	57710	A	27505	449	668	SPGDYFISLMAAMGRPQVGYW APPELLQKMMRKRMRNR/VKKLI QNYKQLK/CSLTLNNHVKLVRT NLRFHLAGLLG
27343	57711	A	27506	1	2454	
27344	57712	A	27507	2	408	
27345	57713	A	27508	205	715	
27346	57714	A	27509	1	813	
27347	57715	A	27510	1	864	
27348	57716	A	27511	17	396	
27349	57717	A	27512	3	428	LTNYAAAYCTGLLLARRLLNR LGMDKIYEGQVEVPGNEYNVE SIDGQPGAFTCYLVADLARTTT GNKVFGAPEGAVDGGLSNPHS SKRFLGLSIPHSTK*ILGYDSEN KEFNAEVRKHMIGQKFADDL HCLIEEDENASKK
27350	57718	A	27513	164	431	EFFSTSNIGVYLQIIHIVGKPI*H /YLV*ILSY*HLAARTISSKIKSN SLVPCASNRGDVGSTRPRVTR RSVRYSAAPLRSPFLAR
27351	57719	A	27514	1307	1947	TNEGSGNSAPLFSGARNQTRMI VRGTNR/DIICQIAYARTEGDMI VCTAYVHELPHYGVKVDLTNY AAAYCTGLLLDRLLNRFDMD KIYEGQVEATGDDYNVVSIDG QPEVHRKHIMGHNVADYMCY LMEEDEDGYKKQFSQYMKNSV TPDMMEECKKAHAARES CEKKPKKEVKKKKWNRPKMS LAQKDWVAQKKASFLRAQE RAAES
27352	57720	A	27515	1	987	
27353	57721	A	27516	1521	1641	
27354	57722	A	27517	2	614	ILSRVVEFPLTAEVPPPELLAAAG FFHTGHQDKVRCFFCYGGLQS WKRGGDPWTEHAKWFPSCQFL LRSGRDFVHSVQETHSLLGS WDPWEEPED\EPLWPPSLPLG TLSCPHPGERSLKVPRSQEGSV QPRPRGRGGFLSPQ/DARDVEA QLRRLQEERTCKVCLDRAVSIV FVPCGHLVCAECAPGLQLCPI WQKPPSRSR
27355	57723	A	27518	3	89	

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27356	57724	A	27519	1	1618	ASSHVETRAHAEERLLKKLFSG YNKWSRPVANISDVVLVRFGLS IAQLIDVDEKNQMMTTNVWVK QEWHDYKLRWDPADYENVTSI RIPSELIWRPDIVLYNNADGDFA VTHLTKAHLFHDGRVQWTPPA IYKSSCSIDVTFFPFDQQNCTMK FGSWTYDKAKIDLVMHRSRVD QLDFWESGEWVIVDAVGTYNT RKYECCEAIYPDITYAFVIRRLP LFYTINLIIPCLLISCLTVLVFYLP SECGEKITLCISVLLSLTVFLLLI TEIIPSTSLVIPLIGEYLLFTMIFV TLSIVITVFVLNVHHRSPRTHTM PTWVRRVFLDIVPRLLLMKRPS VVKDNCRRRIESMHKMASAPR FWPEPEGEPPATSGTQSLHPPSP SFCVPLDVPAEPGPSCKSPSDQL PPQQPLEAEKASPHPSGPCRPP HGTQAPGLAKARSLSVQHMS PGEAVEGGVRCRSRSIQYCVPR DDAAPE\QMARLPAPWPLATPT RLSSHPQTSPLRANAHARRSPL RCPRVPRSRPAAPKHRPRTCPC
27357	57725	A	27520	1	3158	
27358	57726	A	27521	2	237	
27359	57727	A	27522	76	254	PLHITFFSRACFPSLHNCCEY*Q PGF*TS\KTPQLWCQLRQYSFK HSFLVVPTCPVPLL
27360	57728	A	27523	86	376	SLEGRLSDYTPTFQGCQTQGR LPWSFTLSGKSRFSGEGARACY KCQKSDHQARNACSPGFLLSRI PSVRDPTGNRTVQLTWQPLPEP LELWPKAL
27361	57729	A	27524	1	167	MPEPQRPGVPPEPPPPGACYAC RKSGHWA\RNARSPGFLLSRVP SPPGPSRTPSFG
27362	57730	C	27525	1	381	
27363	57731	A	27526	243	437	VTSTVRQTPATSPAHKNFQMPE PQRPGVTPEPSPPGACYKCQKS DYQA\RNACSPGFLLSRVPSV
27364	57732	B	27527	88	1485	
27365	57733	A	27528	1	3759	
27366	57734	A	27529	36	438	RNDRVRPHRDVYSLQGR LSDH SPTFQGCQTQGR LPWSFTLSG KFRFSGEGATTSPA HKNFQTPE PQWPGIPPEPPPTGACYTCRKSG HWA\RNARRPGFLLSRIPSVWD PTENRTVQLTWQPLPELELWP KAL

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27367	57735	A	27530	314	691	SLQGHLSDYTLTFQGCQTQGH LPWSFTLSGKSRFSEEGTKGDV SGSQDNCGERVSRQTRQSLH HRQGACYTCRKSGHWAIRNAR CPGFLLSVPSVWDPTENRTVR LTWQPLPEPLELWPKAL
27368	57736	A	27531	383	2907	RSPTSKTKDICHRSWRRGL/WV NKASEGDELDLDRDVSVASNIEP WTGWCRAAPLQADLGNSSSA SAPPYPNPFITSPHTWSGLQFR SVTSPPPPAQQFTLKKVAGAKG IVKHALKRLKPVITRLLQHGLL KPINSPYNPILPVLKPKPKYKL VQDLRLINQIVLPIHPVLGIHGLT SSVRRDAGQDLKRDRAEFLG DEVHHPHRRRIAEARLLLQGH FDPLHRLIGQVLELGEARYAPP VEQHHRLAPARRTGQRLHPLE QFGQAGRAQRNRLGIEHRDR LDRPDDGAGNALAGDGDFFRG CLFAGIGIRPRYCRYRQSQDDR RPSHAAPRPRALPIHRPATPIA DVMVMFVSVAIMSQRLVLRLHI DGISRWPPAVVFITDVKIWLVI PSDDCRIRSNDRDDMQGEAPA MSMNAARVGDPIGHSFSQGL FGEALDGLFFARRSEVDMRAG NLGRLIARGLSGGRWTPADGQ LTLGSRDVFINGPPATMTIRSTG QCRQHSGLRTVTRTETDSIGPIE VPADAYWGAQTERSLENFPFG AREQMPIGIVHALAIVKKAAR INRGHGLAGEKADAIESAAHDV IEGRHDDQFPLVIWQTGSGTQS NMNANESSNDTFPTALHVAAA LAVTKQLFSALDRHLAALDAK AKEWDSIVKIGRTHLQDATPLT LGQEFSGYVQQLANARDRIEGT
27369	57737	A	27532	929	1227	PENGTFEFSILQVLDNSCHKMG KWS/RGA*RPGILLHIGPSLVSA PNVTHPKSFFLSFLRSPQV PSPLNPSFLWTHLTSPLLRLL ARLSQVPILT
27370	57738	A	27533	98	412	LGSGDLPEINPLSSCSLLCEKH PPTTSGPQTDQPKKHLTNFKSG ACYMCRK\SGHWA/RANARSPG FLLSRIPSVWDPT*KFGLVQLTL GKPLPEPLELRP\RLSD
27371	57739	A	27534	14	249	
27372	57740	A	27535	49	341	
27373	57741	A	27536	392	571	

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27374	57742	A	27537	1	1590	MPNGTNESHRYNASERSQTQK DEQTGKTVGPPEWTPLVRRNG GDSGLDFHFFAEKLLIIVDSAG RAGTGHMRPPAVHFGHRGQA MITLSPLRAKQKAVLQKPPPLT STYSLMLPLFLPDKRPPTTEWF LPVMEDAHELTLAWLMLALYR KPNASVQGS AQEETLCVFRVKE PLEWQALFADVHSGVNDKGPN INCSLYEHIKNVSEIVLNLAQTQ KNPAHSDPSSTPAGCM\PGTTA GGSVMSACCPSPAAPGPLPGP ATGSC/SPSAAPRPDPDPGHP GIMAIRAAPSCLGACITLQDEET CEQTHTHSRIMYILFARCLLH AIARGRSRKCAASAGGTCPHVR VPGGGSYFRVSLQGQQTTHWMR PENGFTCVRTKSRRCPIIREQH PTKIPKALTANANQAFFLLVNG HSMVASPHQSQRRLDGGFWR DASSLLANSQVQVCGSLRKR HGWWVPFSLRCVAPLTADDSR LRTASLEMSTPPMHVQDDWQL RRGLPAGNTAVTVSELIYLNAN GRLQVEKFLF
27375	57743	A	27538	279	759	
27376	57744	A	27539	443	696	
27377	57745	A	27540	1	179	
27378	57746	A	27541	3	1237	
27379	57747	A	27542	4	152	
27380	57748	A	27543	760	908	
27381	57749	A	27544	203	570	
27382	57750	A	27545	312	500	
27383	57751	A	27546	1	441	
27384	57752	A	27547	1	630	
27385	57753	A	27548	1	1254	
27386	57754	C	27549	236	408	
27387	57755	C	27550	220	398	
27388	57756	C	27551	254	445	
27389	57757	A	27552	1	2742	
27390	57758	A	27553	1	744	
27391	57759	A	27554	1135	1751	RPGSTLQVRQNYHQGLRRPPIN R\QINLELYASIVVYLSMSYIYF DRD\DVALKNFAYFLH\QSHE E\REHAEKT**KL\QNQRRLAEF FLQDYQRNQD\CDDWGRAGLN \A\MECALAFWKKNVESHYW NLHKL\AT\DKN*PIIWCDFHW RHIYLE*AG*KAIKRIWGDHVN QTFA/RKMGSAPNLGFGEYLF* QSTPWGDS DNESSPWG

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27392	57760	A	27555	224	547	
27393	57761	B	27556	22	130	
27394	57762	A	27557	1	408	
27395	57763	A	27558	1	1011	
27396	57764	A	27559	56	822	
27397	57765	A	27560	146	411	
27398	57766	A	27561	1	885	
27399	57767	A	27562	115	1200	
27400	57768	A	27563	791	1114	
27401	57769	A	27564	67	401	RLGSSGREVIHPGERGLENNVC/ H*SSGNQENELEMNKTANGDC RRDPRERSRSPIERAVAPTMSLH GSHLYTSLPSLGLAQPLALTKN SLDASRPAGLSPTL\TPGERQQN
27402	57770	A	27565	109	345	HPLFIFPDPLPPPTFHPLIGPRMC FSPGLALCPHPNLILNCSSHNSY VLWEGPGGK*FESWGRFPHDT VLVIVNKSHKI
27403	57771	C	27566	63	167	
27404	57772	A	27567	231	314	
27405	57773	C	27568	99	323	
27406	57774	A	27569	1	1347	
27407	57775	A	27570	192	269	WFYKGEFLCTHS/HCLLPKRTC LLPAAM*YCDSQFSMAGETSQS WQKAKEEQRHILHGGRQKARL TWQQAGECVHRNSPL
27408	57776	A	27571	107	797	AQWRRRAAPPAAGVTCPFRLQP GMETPLDVLSRAASLVHADDE KREAAALRGEPRMQTLPVASIAL SSHRTGPPISPSPKRKF\SMEP\G DEDLDCDNDHVS\KMS\RIFQPPI LNKTANGRLARRDPRERSRSPI ERAVAPTMSLHGSHL\YTSLSL GL\EQPLALTKNSLDASRPAGLS PTLTPGERQQNRPSVITCASAG ARNCNLSHCPIAHSGCAAPGPA SYRRPPSATCV
27409	57777	A	27572	1	1686	
27410	57778	A	27573	1	1614	
27411	57779	B	27574	208	366	
27412	57780	A	27575	15	1729	
27413	57781	A	27578	1	1614	
27414	57782	A	27579	308	464	KAHHHWSLEKCKSEPQ*DTISW TWMKLETIILSKLPQEQKTRNC MFSLSIGS
27415	57783	A	27580	291	378	
27416	57784	A	27581	2	91	
27417	57785	A	27582	439	519	
27418	57786	A	27583	2	91	
27419	57787	A	27584	2	91	
27420	57788	A	27585	2	91	

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27421	57789	A	27586	50	394	
27422	57790	A	27587	1	666	
27423	57791	A	27588	2	91	
27424	57792	A	27589	5	91	
27425	57793	A	27590	884	991	
27426	57794	A	27591	290	460	
27427	57795	A	27592	86	349	
27428	57796	A	27593	2	89	
27429	57797	A	27594	723	882	
27430	57798	A	27595	255	352	TGTWMKLETHLSKLTQE\QKTK HCMFSLISGS
27431	57799	A	27596	1	1685	
27432	57800	B	27597	82	263	
27433	57801	A	27598	491	816	RHRGAQRKAFLQRVNCGLCCT WNLC PQKL RGRK WPVQVS\PA AGRDPGGPLL*PEGTLWGAPFC LGAPPPLLTAACAPAAGRAGGT RGAAPACPEDRTNAHSQHHP HV
27434	57802	A	27599	645	1142	
27435	57803	A	27600	218	326	
27436	57804	A	27601	181	2316	
27437	57805	A	27602	2	238	
27438	57806	A	27603	709	1416	
27439	57807	A	27604	3	501	SSRALRLLGVVVRIRQAGTMA VTKELLQMDLYALLGIEEKAA DKEVKKAYRQKALSCHPDKNP DNPRAAELFHQLSQALEVLTDA AARAA YDKVRKAKKQAAERT QKLDEKRKKVKLDLEARERQA QQQGE*GGRRESRSTRTLEQEIE RLREKGSRQLEEQQRLI
27440	57808	A	27605	1	963	
27441	57809	A	27606	135	384	
27442	57810	A	27607	349	679	SETYWFFPRESQHLDLDVWPPR SEHHSQSTGTHSGVSESLSPRYF QRCNAHSPSQGHEEQYLAPWK HRLYQRMSDLPLNDIR*FQYSK GHHRCQSNEAVQNPQLQSL
27443	57811	A	27608	1590	2758	
27444	57812	A	27609	123	2312	
27445	57813	A	27610	1	1809	
27446	57814	C	27611	79	309	
27447	57815	C	27612	77	325	
27448	57816	A	27613	1	606	

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27449	57817	A	27614	2	686	SQCAELASPLSPAPGLPRHSRL HALLGLAMPVDLSKWSGPLSI. QEVDEQPQHPLHVTYAGAAVD ELGK VLTPTQVKNRPTSISWDG LDSGKLYTLVLTDPDAPSRKDP KYREW\HHFL\VVNMKG\NDISS GTVLSGIVG\SG\PKGTGLHRY VWLVEEQ\RLKCDEPILASN RSGDHRGKIQRWASLPVKK\YE APGPPVAGHRVTPSPKWDEPM CPQTVTKQLSWGK
27450	57818	A	27615	446	1300	
27451	57819	A	27616	2	346	
27452	57820	A	27617	1	305	MAISTSGSSVPWPSA/PSGPHGR GS\PWGFCLATCWQSIRGQGGD PWSAGSGHPGTKGASAPGPG GQSGGDSGSA/GR*GSHHLP ASFRAGSGQAWDGK GK
27453	57821	A	27618	287	475	
27454	57822	A	27619	37	314	
27455	57823	A	27620	1	367	
27456	57824	C	27621	360	610	
27457	57825	A	27622	604	980	
27458	57826	B	27623	8	442	
27459	57827	A	27624	1	2268	
27460	57828	A	27625	296	398	APPGPTLPWASTPSRGCT*APPG PTLPWASTPSRGCTSSWFMLPA MRRCGAPC
27461	57829	A	27626	1	3633	
27462	57830	A	27627	1853	3809	
27463	57831	A	27628	1	656	MTHNQEK NKSTNTMTMMMK LADKDDKTAMINMLQVVKKV EEAMSMRRNKDVKNIIHGRA RWVKPMIPALWEAKEVEGKYS AHNFWGSWKFKSSSRSSSSGPE SPARTHASFCQPDGGPTNKLGT KA FRVSPASSLLVDLNTQFEV NVRKATPTCSLELGRKRRDGA AERAALDVVVVIYQLAPAAAP NCLNPVTSRR/PPQTPAPEGQGR RQS FEE
27464	57832	A	27629	127	273	
27465	57833	A	27630	3	405	AAFHARGH RAGLSASSCSWRC CPSSSAPCAPYAAPAARMLQTC LKQSPAGMPPASPSPAAHISWG STSFSKYSRSTSTSCCPCISSCW ESWPCPTPSSPL*NKFFPASFPN RQYQLLFTQSGGENKEKDHQL
27466	57834	A	27631	689	987	
27467	57835	A	27632	228	527	

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27468	57836	A	27633	108	441	
27469	57837	C	27634	156	287	
27470	57838	A	27635	2	363	RFTKVEMKEK\MLSAAREKGR VTHKGKPISLKADLSAETLQAR REWGPIFNILKEKNFQPRISYPA KLSFISEQEIKYFTDKQMLRDFV ITRPALKELLKEALNMERNNW YQPLQKHAKL
27471	57839	A	27636	2	367	
27472	57840	A	27637	1	936	
27473	57841	A	27638	1	865	
27474	57842	A	27639	1	1287	
27475	57843	A	27640	1	2565	MGPGARLAALLAVLALGTGDP ERAAARGDTFSALTSVARALAP ERRLLGLLRRYLRGEEARLRDL TRCNDETITYLLDKRLTVLTAA NIPYSSPENGAKRRRQDAFPPIH YNTQDALLQYLSGVGWGAPPA AQAHRDAPFVDSIAQVLLRTSG GSAEASGWSLRSRWAVGGATG SWVLSKGDRA SLGERVVTGWA TLNVGRSFAYCLTTCVQPLDV GPRKEHAPRPPSLSPSTRQRGQ SERSQDANGRRKQKTKSEPERF EDAVLLAGFKVEEPPVQRPRK EWFQGPSPGHCCPAQPQDSAPC ILATHAPARAQNAPGTAWAAA LEGTSTVSLDHFHVGVVVVS GGEIILLLSFRFYDKVLSLHEDS TTPVANPLLAFTLIKRLQSDWR NVVHSLEASENIRALKDGYEKV EQDLPAFEDLEGAARALMRLQ DVYMLNVKGLARGVFQRTGS AITDLYSPKRLFSLTGDDCFQV GKVAYDMGDYYHAIPWLEEA VSLFRGSYGWKTEDASLED ALDHLAFAYFREQSSSPATEQS WMENDFDELREEGFRRSNYSE LQEEIRTNGKEVKSFEEKLDEW ITRITNAEKSLKDLMEKTKAR ELRDECRSLSSRCNQLEERSV MEDEMNETKRGEKFKRIKR NEQSIQEIWDYVKRPNLRLIGV LESRENGTKLENTLQDIIQENF
27476	57844	A	27641	219	451	APAAEGAGRIS/PCSRHSPAGLE/ WLCPHLCALF*QCPP/PTCHQSA SPR\WP*G/RPAAGPHPPAATVA PKRKGKTKSSTRE
27477	57845	A	27642	237	561	

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27478	57846	A	27643	3	461	TRTRRGSRTAEAR*CTPGWRPA GRRSALCSRGHLGP*RPPRTRS GAAPGPHSPCGRPDGAPCSRLP PHRSRSPPHGSHVPAAGWLSAG PHQRWPAAGPGTDCRVVG PERASPHIWKGSTVPFLPSWTF RVLSVPGCSLPRCCWLGHQC
27479	57847	A	27644	2	159	
27480	57848	A	27645	1	243	
27481	57849	A	27646	219	462	
27482	57850	A	27647	256	427	
27483	57851	A	27648	1	954	
27484	57852	A	27649	2	4690	
27485	57853	A	27650	1	1275	
27486	57854	A	27651	1	867	
27487	57855	A	27652	1	472	
27488	57856	A	27653	2	1215	
27489	57857	A	27654	3	401	
27490	57858	A	27655	712	1245	
27491	57859	A	27656	2	1178	
27492	57860	A	27657	278	339	
27493	57861	A	27658	1	1407	
27494	57862	A	27659	1	687	
27495	57863	A	27660	484	776	
27496	57864	A	27661	299	1318	
27497	57865	A	27662	1	960	
27498	57866	A	27663	122	282	
27499	57867	A	27664	1	600	
27500	57868	B	27665	1	375	
27501	57869	A	27667	356	439	
27502	57870	A	27668	49	360	
27503	57871	A	27669	2	580	GRVCGGPWAARVGERIPNMA GRKLAS*KPTD*VAFARD/IIPQ NPKAPLPSFLKS\WNGDPSPSRL\A AALP*ESHPAIDWA*LPRPNVA QGLAWVDDFE\KKFNAAERFPC PEDK\YTAQVDA\EEK\EDVKSL C/AEWVSLSKA\RIVEYEKEME KMKNLIP\FDQMT\IEDLNEAFP ETKLDK\KKYPYWAHQPIENL
27504	57872	A	27670	1	675	
27505	57873	C	27671	137	1357	
27506	57874	A	27672	1	1032	

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27507	57875	A	27673	3	938	MANNPGANGQ\PGGPGGPGMG KPRCF/RGEVFGIVIRGRGSRP/R GRGRGR\GRGARGSKGRG*RD W\VPVHQVGAALVKDH*RSKF PWKEIYLFSLPH/IKESIIDF\FL GGLLSKDEGFE*LCPVQEQ\TRA GPAATR\FKAFCCTPGTTNG\HV G\LGVKCSQE\VAHRPFRGAMIL AKL\SIVPVR\IRGYWGNKIRKPA HTVP\CKVT\GRCGSVLVRLIP/S QPRGTGIVSAPVPNKLLMMAG IDDCYTSARG\CTATLG\NFAK ATFD\AISKTYSYLTPDLWKET VFTKSPYQFTDQLVKDHTRV VQRTQAPAVATT
27508	57876	A	27674	1	864	
27509	57877	A	27675	2	752	RRAHACARRRRKKEMLGVNVL TSHSSQERMKLTFFKKKAVNFA DAAAAQGPLLPAMVNPMTMFH IAVDGEPLGCVSFEVRGLESKK *LLI*SIKLC*QIG\LFADKVPKT AENFHALSTGEKGFYKGSCEF RIIPGFMCGGDCE/RHHNGTG GKSIYTEKFEDENFILKHTGPGI LSMANAGPNTNGSQFFICTAKT EWLDGKHVLFQKVKEGTNIVE AMERFGSRNGKTSKKITIADCG QLLISLTCVLS
27510	57878	A	27676	3	327	AQELHTFEVTGQETVAQIKAHV ASLEGIAPEDQVVLLAGAPLED EATLGQCGVEALTTLLEVAGRM LGGAKQEKKKKKTGRAKRRM QYNRRFVNVPVTFGKKKGPN
27511	57879	A	27677	567	838	

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27512	57880	A	27678	3	1923	ATMAQGLEVALTDLQSSRNNV RHHTEEITVDHLLVRRGQAFNL TLYFRNRSFQPLDNIIFVVETE DAVYLDSEPQRQEYVMNDYGF IYQGSKNWIRPCPWNYGQFED KIIDICLKLLDKSLHFQTDPATD CALRGSPVYVSRVVCAMINSN DDNGVLNGNWSENYTDGANP AEWTGSVAILKQWNATGCQPV RYGQCWVF AAVMCTVMRCLG IPTRVITNFD SGHDTDGNLIIDE YYDNTGRILGNKKKDTIWNFH VWNECW MARKDLPPAYGGWQ VLDATPQEMSNGVYCCGPASV RAIKEGEVDLNYDTPFVFSMVN ADCMSWL VQGGKEQKLHQDT SSVGNFISTKSIQSDERDDITEN YKYEEGSLQERQVFLKALQKL KARSFHGSQRGAELQPSRPTSL SQDSPRSLHTPSLRPSDVVQVSL KFKLLDPPNMGQDICFVLLALN MSSQFKDLKVNLSAQSLLDHG SPLSPFWQDTAFITLSPKEAKTY PCKISYSQYSQYLSTD KLIRISA LGEEKSSPEKILVNKIITLSYPSI TINVLGAAVVNQPLSIQVIFSNP LSEQVEDCVLTVEGSGLFKKQQ KVFLGVLPQHQAIILETVPFK SGQRQIQANMRSNKF KDIKGY
27513	57881	A	27679	1	756	
27514	57882	A	27680	1	2601	

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27515	57883	A	27681	1	1677	MARKDLPPAYGGWQVLDATP QEMSNGVYCCGPASVRAIKEG EVDLNYDTPFVFSMVNADCMS WLVOGGKEQKLHQDTSSVGNF ISTKSIQSDERDDITENYKYEEE HFEAFQSVAQLPITRPFWSILRP F*RP*RKISTSFIRPLFTFL/LRLM NAHPEFRMAMKDAKTYPGKIS YSQDSQDLSTDKLIRISALGEEK SSPEKILVNKIITLSYPSITINLLA RVLSPSLPGPAGLASRSEYGPA KPTPTGNSSWPASAARSPGSRP CLSLHTSPQAEGAGSGLDQPRE RLPQCSGELKGSSSAARMGAE NEEAPRASEGCQCQQA VTSQ QDGGPLLQNRFFWDCGDENGA DAVYLDSEPQRQEYVMNDYGF IYQGSKNWIRPCPWNYGQAASP WRYGQWWVFAAVMCTALGIK SCDFQAARNNEEHHTKALSSRR LFVRRGQPFTIILYFRAPVRAFL PALKKANKGKLESFSYICFFSIV FGSKNSYAKVAYLEVAYPATL QNGALRKYLVLGA AVVNQPLS IQVIFSNPLSEQVEDCVLTVEGS GLFKKQQKVLIP
27516	57884	A	27682	1	1653	
27517	57885	A	27683	3	2170	
27518	57886	A	27684	2	244	ACPSTSTSHCRGATCSCSRTS/C SGVLQHSLRHCA SGRGFSSRC ACCGSPGLGLPAALPPAAWGL QIAPSPQGTPGNSQS
27519	57887	A	27685	618	851	
27520	57888	A	27686	78	240	
27521	57889	A	27687	860	1246	
27522	57890	B	27688	1	2301	

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27523	57891	A	27689	1	1719	MHNTDGNRFLSHWGYRQALSI SKPASASLHPSSKTKPLGTQSKT VVAKRNRHGGKKERSSSPAME QSWMENDFDELREEGFRRSNY SELREDIQTGKEVENFEKNLE ECITRITNTEKCLKELMELKTK ARELREECRSLRSRCDQLEERR KQERSKIDTLTSQLKELEKQEQ THSKAGRRQEITKIRAELEIET QKTLQKINESRSWFFERINKIDR PLARLIKKKREKNQIDTIKNDK GDITTDPTIEIQTIREYYKHLA NKLENLEEMDTFLDTYTLPRLN QEEVESLNRPIGSEIVAIINSLP TKKSPGPDGFTAIFYQRYKEEL HINRAKDKNHMIISIDAEKAFD KIQQPFMLKTLNKLVLVLARA IRQEKEIKGIQLGKEEVKLSLFA DDMIVYLENPIVSAQNLLKLLS NFSKVSGYKINVQKSQAFLYTN NRQTESQIMSELPFTIASKRIKY LGIQLTRDVKHLFKENYKPLLK EIKEDTNKWNIPCSWVGRINI VKMAILPKVIYRFNAVPIKLPM TFFTELEKTTLKFIWNQKRACIA KSILSQKNKAGGITLP

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27524	57892	A	27690	1	1902	MNAKALPTLSPLPQATTESVSL TQERSSSPATEQSWTENDFDEL REEGFRRSNYSELREDIRTKGK EVENFEKNLEECITRIINTEKCL KELMELKTKARELREECRLRS RCDQLEERVSADEMNEMK REGKFREKRIKRNEQSLQEIWD YVKRPNVRLIGVPESHGNGTK LENTLQDIIQENFPNLARQANIQ IQEIQRTPQRYSSRRATPRHIIVR FTKVEMKERMLRAAREKEIQT TIREYYKHLYANKLENLEEMD KFLDTYTLRRLNQEEVESLNRPI TGAGIEAIINSLPTKKIPGPDGFT AEFYQRYKEELRIKYLGIQFTR DVKDLFKENYKPLLKEIKEDTN KWKNI PCSWVGRINIVKMAILP KVIYRFNAIPIKLPMTFFTELEK TTLKFIWNQKRARIAKSILSQK NKAGGITLPDFKLYYKATVTKT AWYWYQNRDIDQWNRTEPSEI MPHIYNYLIFDKPEKNKQRGKD SLFNKWCWENWLAICRKLKLD PFLTPYTKINSRWIKDLNVRPKT IKTLEENLGITIQDIDMGKDFMS KTPKAMATKAKIDKWDLIKLK ELLTAKETTIRVNRQPTKWEKI FTTYSSDKGLISRIYNEL/KQIYK KKTNNPIKKWAKDM
27525	57893	A	27691	1	2781	MGKKQNRKTGNSKKQSASPPP KERSSSPATEQSWMENDFDEM REEGFRRSNYSELREDIQTKGK EVENFEKNLEECITRITNTEKCL KELMELKTKARELREECRLRS RCDQLEERVSVMEDEMNEMN DGENGTKLENTLQDIIQENFPN LARQANVQIQEIQRTPQRYSSR RATPRHIIVRFTKVEMKEKMLR AAREKDFKPTKIKREKEGHYIM VKGSIQQEELTILKIYAPNTGAP RFTKQVLSDLQRDL
27526	57894	B	27692	1	756	
27527	57895	B	27693	1	1743	
27528	57896	A	27694	1	1407	
27529	57897	A	27695	3	391	
27530	57898	A	27696	604	955	SSVFLGDPPIIGNKEMCLSSVL LINGSINFLHPFREDKGAVDVP GVATQQLILLNDPVLTAASEILG\ LVSSLSK*TSPPIPGPGGNA*AR QPSCP*KGELSWRSAPSLVQFSS

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27531	57899	A	27697	1	1783	MGARAGGSCSCLMWLLLASG HFMGCVAAGDTVGPEKFRSCY TITLLQSKLSYSFGKNNKNFQL RKCLQTVDNLFVPNQNGYYCH SQTSLDRAQIDLNGRIRNGSVY SAHSTNSLNNPQPYLQSPMSS NPSITGSDVMRPDYLP SHRHS VIPPSYRPTPDYETVMKQLNRG LVHAERQSHSLRNLNIGSSYAY SRPAALVYSQPEIREHAQLPSPA AAHCPFSLSYSFHSPPYPYPAE RRPVVGA VSVPELTNAQLQAQ DYPSPNIMRTQVYRPPPPYPPPR PANSTPDL SRHLYISSNPDLITR RVHHSVQTFQEDSLPVAHSLQE ERSSSPATEQSWTENDFDELRE EGFRRSNYSELREDIQTGKEV ENFEKSLEECITRITNTEKYLKE LMELKTKARELCEECSLRSQC DQLEERVSAMEDEM NEMKRE GKFREKRIRNEQSLQEIW DYV KRPNLRLIGVPESDGENGTKLE NTLQDIIQENFPNLAKQANVQI QEIQRTPQRYSSRRATPRHIIVR FTKVEMKEKMLRAAREKGRVT LKG/ITHQT/RQRJSRQKLYKPEE SGGQYSTFLKKRIFNPEFHIQPN
27532	57900	A	27698	3	1046	
27533	57901	A	27699	1	3585	
27534	57902	A	27700	937	1119	

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27535	57903	A	27701	1	2231	MGKKQSRKTGNSKKQSASPPP KERSSTPATEQSWSENDDEL EEGFRRSNYSKLQEEIQTKGKE VKHFEKNLDECITRITNREKCL KELMELKAKARELREECRLRS QCDQVEERTLARLIKREKN QIDAIKIDKGDITNPTETQTTIR EYYKHLTYTNKLENLEEMDKFL DTYTLPRLNQDDVESLNRPTG SEIEAINHSLPTKKSPGDRFTA KFYQSLPSSCDYGHAPHPDVF RVSSFVWVRGLAGSGVKLQTF AVSVTALKAARLELFIPDGA QLASPSGSLTRTGGGAACQSHA VCPHSSAFGWSMGLGAMEQG AALIGEARASREPMEEVGGSG MAACRSQALPRGQLRPSEKSR APEHSSSPAMEQSWMENDFDE LREEGFRRSNYSELREDIQTKG KEVENFEKNLEECITRITNTEKC LKELMELKTKARELREECRLR SRCDQLEERVVSAMEDEMNEK QEGKFREKRIKRNEQSLQEIWD YVKRPNLHLIGVPESDGENGTK LENTLQDIIQENFPNARQANI IQEIQRTPQTYSSRRATPRHIVR FTKVEMKEKMLRAAREKGDSV ERSFSNKAELLFQLHGHQRESL SKKEAQVWRDKGLYFRKGLLD QAQSWSRQVASILGAQIQVEGS PEQRLENVELAGGHLNLTAKAIP MVAVAGGISFKCGAVLLLGAA
27536	57904	A	27702	596	1593	KPRLENYVKNAEASGANAINW KKGYLVMEDDEMNEKQEGKF REKRLKRNEQSLQEIWDYVKR PNLRLIGVPESDGENGTKLENT LQDIIQENFPNARQATVHIREI QRTPQRFSRRSTPRHIVRFSKV ETKEKMLRAAREKEIQTTIREY YKHLTYTTKLENLEEMEKFLDT YTLPRLNQKEVESMKRPITSSEI EAVINILPIKRSPGPDGLTATFY QRYKEELERSSSPATEQSWMEN DFDELREEGFRRSNYSELREDIQ TKVKEVENFEKNLEECITRITNT EKCLKELMELKTKARELREECR SLRSRCDQLEERVVSAMEDEMNE

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27537	57905	A	27703	717	1803	STGRKAPHHTYSKIDHILGSKA LPSKCKRT/E/IITNCLSDHSAIKL ELRIKKPTQNPSTTWKLNLLLL NDYWVNKEMKSEIKMFFETNE NKNTTYQNLWDAFKAVCRGK FIALNAHKGKQERSKIDTLTSQ LRELEKQEQTTHSKVSRREQEITKI RAEPKEIETQKTLQKINESRSWF FERINKIDRRRLARLIKKKREKNQ RDAIKNDEGDITTDPTETIQTIR EYYKHLIYANKLENLKEMDKFL NTYTLPRLNQEEAESLNRIAGS EIVAIINSLPTKKSPGPDGFTAEF YQRYKEKLVFGAGYFGMWAL AALPSNLLKLSQLCQEAEEVNV LVQFVCICPAQEPTIDVLFVSL PPLSLILN
27538	57906	A	27704	407	1696	NILRNAVPHQQQNK*A*RRMTL TS*EKKASDDQTTPSYRRKFKA KAKKLNT/YEKNLDECITRITNR EKCLKELMELKAKARELREEC RSLRSQCDRLERVSVMEDM NEMKREGKFREKGIKRNEQSL QEIWDYVKRPNLHLIGVPESDR ENGTKLENTLQDIIQENFPNLAR QANIQIEIQRMPQRYSSRRATP RHIIVRYTKVEMKEKMLRAAR EKGRVTHKGKPIRLTADLLAET LQARREWGPIFNILKEKNFQPRI SYDPDKLRFISEGEIKYFTDKQML RDFVTTTRPALIEALKEVLNMER NNRSPSSSPATEQSWMENDFDE LREEGFRRSNYSELREDIQTGK KEVENFEKNLEECITRITNTEKC LKELMELKTKARELREECRSLR SRCDQLEERVVSAMEDEMNMK REGKFREKNNKKK
27539	57907	A	27705	2597	5904	
27540	57908	A	27706	1	675	
27541	57909	C	27707	137	1357	
27542	57910	A	27708	1	1032	

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27543	57911	A	27709	3	959	MANNPGANGQ\PGGPGGPGMG KPRCF/RGEVFGIVIRGRGSRP/R GRGRGR\GRGARGSKGRG*RE WNAVHQVGAALVKDH*RSKFP WKEIYLFSLPH*RNQRIIDF\FLG GLLSKDEGFE*LCPVQKQTRA\ GQPHPGFKA\FVAIGDY\NGHV GLG\VKCSKEIVATGHPVGAI\NL AKLSIRPRCAEGYLGKVLAKP \HTVPLQGDKGRCG\SVLVRLH PLHPRG\TGI\VSAPVA\KKLLM MA\GIDDCYTLS/ARGCTATLG QIWPRAT\FDAISKTYKLP*PPD LWKETVFTK\VPYQ\FTDHLV KDPHPRESSVQQDSELQLVATT
27544	57912	B	27710	50	1598	
27545	57913	A	27711	1	3916	
27546	57914	A	27712	334	462	PAFITVNKCSSARKLIQV*GPVA CRVHILPLVVRCPKPGTTG
27547	57915	A	27713	256	654	
27548	57916	A	27714	1	855	
27549	57917	A	27715	211	436	
27550	57918	A	27716	19	319	
27551	57919	A	27717	987	1392	RHCLCSPSRSSSELQPTASSSSA RSSPSPASQPVPPGPAGAAAAP HPPCCPPESTCWTWPC*SPLCH WAVA*ARSGPGPLGECFETHGP HGCPPGQSPRPQ*APSAWWTE VQPR*PRPAPEGSSRRPPPPGAP
27552	57920	A	27718	285	1266	RSQIQRGTDRAPKCTSGPP\HRV AQPDADAPREEPPYLPNGMPPG RDAPHLPDWAASQRGSSHPRR WPPSQRRSLLPRRVADRPEAAI SALWEAKAGGWETLPEMEITIH NKTRQSKRITHQTNRPNTSSKI RITKTDLTSWETQSPGSPDRHR KPSTATKHNRFSKIYSRFSIFQC DQGLNGRCGQKGAGKEQRM QEQQENFQAPPFQSHPALRSLQ MQQVQTEEHFGTLECGKLAQC SFHPTREEDRNQDGKTDMLHF KLELPLQSTEHVLGVQLILTFY RLHSCGIPSVLSRYPYFSMLAFG ILSRTLRRFVTVSSLLITGI
27553	57921	A	27719	1518	1779	ARSGPGPLGECFETHGPHGCPP GQSPRPQ*APSAWWTEVQPR* PRPAPEGSSRRPPPPGAPCPAQ PTRRCGRHQTPPAAGAAVP
27554	57922	A	27720	507	1114	
27555	57923	C	27721	80	223	

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27556	57924	A	27722	1	2373	
27557	57925	A	27723	2	272	RARTPPLWPRARGPGSRVSGAP WFLDLAGGGFLPPAVLCDI.SA ASSTVSGRSNPHC*AWGGLEFF GEVERAESGFPVPEPSLISEMPH
27558	57926	A	27724	195	489	
27559	57927	A	27725	210	1308	
27560	57928	A	27726	203	474	
27561	57929	A	27727	224	892	
27562	57930	A	27728	1	457	
27563	57931	A	27729	3	1325	
27564	57932	A	27730	322	512	
27565	57933	A	27731	621	737	
27566	57934	A	27732	441	588	
27567	57935	A	27733	1	792	
27568	57936	A	27734	8	488	SGCRNSARADADPSLHASPPAP TMATVQLLEGRWRLVDS\KGF DEYMKELGVGIALRKMGAAMP KP\DCIITCDGKNLT\IKTESTLK TTQFSCTLGEKFEETTADGRKT QTVCNFTDGALVQHQEWDGK ESTITRKLKDGKLVVECVMMN VTCTRIYEKVE
27569	57937	A	27735	861	2161	
27570	57938	A	27736	349	625	
27571	57939	A	27737	1	630	MAQETNHSQVPMCLCSTGCGFY GNPRTNGMCSVCYKEHLQRQN SSNGRISPPATSVSSLSESLPVQC TDGSVPEAQSA LDSTSSMQPS PCIK\QSLSESVASSQLDSTSV KAVPETEDVQASVSDTAQQPSE EQSKSLEKPKQKKNRCFMCRK KVGLTGFECCRCGNVSCESHRY SDVHNCSYNYKADAAEEN/LE KENPVVVGEKIQKI
27572	57940	A	27738	1	1089	
27573	57941	A	27739	41	334	AGKMTKLEEHLEGIVNISPQ*S VRKGHFDTL SKG\ELKQLLTKE LANT\IKNIKDKAVIDEIFQG\LD ANQDE\QVDFQEFIS\LVAIALK AAHYHTHKE
27574	57942	A	27740	1	519	
27575	57943	A	27741	28	314	
27576	57944	A	27742	208	421	
27577	57945	A	27743	619	890	
27578	57946	A	27744	113	328	LGSGAWGGGDLPWEINPLSSCS LLREKDLLTTS GPQTTS PRNISP ILNRDPTVQLTWQPLPEPLELW PKAL
27579	57947	A	27745	501	680	

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27580	57948	A	27746	166	405	RPRSERLLWGTSPLS/CALT*G DPPTTSGPQTNQ\PRNISPISNRD PTGKWTVQLTRQPLPEPELELWP KALRLTPSQIFSA
27581	57949	A	27747	425	484	
27582	57950	A	27748	448	520	
27583	57951	A	27749	3	679	GGGFSDRDRRTIALQPGQQIWM WGIGKQVGGCGWLRGKNRVV GAAKDQSGTGEKFYFIPKAMG AMEGSGQRRTLDPGAHRNPS GGYSATDCEGSRPAPGEINSHA SHTKPVWWFFTQTRMKFGAVT RIGGLPWEVNPLSSCSLLREKD PPTTSGPQT\TSPRNISPILNPELA TLAGNLATGPRNARSPGFLLSR VPSVWDPTENRTVQLTWQPLP EPELELWPKAL
27584	57952	A	27750	3618	3848	NLCKEPSSRRSIHKESLLNFPLM GLDPRPQEGFPRDSPR*REESTS LHDPMASSSTVFVWGLKRQKY FLWPFRAS
27585	57953	A	27751	1	297	
27586	57954	A	27752	244	420	RKETKERSRTPP*SPRTGQMTP CKLQPGVLSFPRTAQSWEPAPV PQSPLKNELRRKYLT
27587	57955	A	27753	1993	2205	
27588	57956	A	27754	138	833	
27589	57957	A	27755	1	875	
27590	57958	A	27756	1	1041	
27591	57959	A	27757	3	1447	
27592	57960	A	27758	23	3257	
27593	57961	A	27759	2	168	GKAGCWPRSRARKCRTSSPSIW AAWRPPTR*LTVTSRPGTSGSE PWAMAAASRWQ
27594	57962	A	27760	85	1271	
27595	57963	A	27761	5871	6056	TSSAASTAPRWRRKPHGHQKSL PASLRFPGR*TPQPDLPGPPAQP PAQPGPPQAATVPGRW
27596	57964	A	27762	1	280	
27597	57965	A	27763	1	714	
27598	57966	A	27764	2	558	RRAHACARRRRKKEMLGVNVL TSHSSQERMKLTFKKKAVNFA DAAAAQGPLLPAMVNPTMFFH IAVDGEPLGCVSFEVRGLESKK *LLI*SIKLC*QIG\LFADKVPKT AENFHALSTGEKGFGYKGSCFH RIIPGFTCQSGDFTRHT/GIGGKS ICREKFDDKNFILKHTGPGILSM ANAGPSVNV

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27599	57967	A	27765	1	927	GTRDATAEENRVLLAMVNPTV FFDIAVDGEPLGRVSFEVRGLD TKK*LLI*SIKLC*QIGSSIFITS D*KNSCLPLIVQQCLLFLRILPL FADKVPKTAENFRALSTGEKGF GL*GVPCFHR\IIPGFM CQ\GD FTPP*MAPGGKSIYGEK\FEDEN FILKHTGPGILS\MANAGPNTN GSQFFICTAKTEWLDGKP\VVF GK\VKKGLNIVEAMERFGSRNG KTSKITIADCGQLLISFDLCFIL NHQDHSFCALLSGEHPSTPFAR RILRILWLSLQFLWGSMSFLFPP MPSWIAAVKFMIEIKTK
27600	57968	A	27766	1	798	
27601	57969	A	27767	1	575	PTRPPTRPTRPIMAQDQGEKE NPMRELRIKLCCLNICVGESGD RLTRAAKVLEQLTGQTPVFSKA \RYTVRSFGIRRNEKIAVHCTVR GAKAEEILEKGLKVREYELRKN NFSDTGNFGFGMQDHIDLGIIY DPSIGIYGLDFYVVLGRPFGSIA DKKRRTGCIGAKHRISKEEAMR WFQQKYDGIILPGK
27602	57970	A	27768	1	1695	
27603	57971	A	27769	1	228	
27604	57972	A	27770	1098	1938	IWPRPRDC/RVSYTTVFPPATVT APV/VSGGSHDHIQQYSIEDFR QATAASSVMVARAAMWNPSIF LKEGLRPLEEVMQKYIRYGGM GAALLSDPKIEKAPSMGTLM GVYLPCLQNIFGVILFLRLTWM VGTAQVLQALLIVLICCCCTLL TAISMSAIATNGVVPGYLHTLV QNLVNNGYVRDETVRAAPYD WRLEPGQQUEEYRKLGLVEE MHAAYGKPVFLIGHSLGCLHLL YFLLRQPQAWKDRFIDGFISLG APWGGSIKPMVLASGSGTRA
27605	57973	A	27771	1	1710	
27606	57974	A	27772	163	1659	
27607	57975	A	27773	3	297	
27608	57976	A	27774	3	447	SSPHSSRSLAPPLPGLPLWRHL RSPSAHRCTVGAPFWAGEGRSP LPQLAGRCGRRASGNRG\ARG ACGPAGVPGGRGLGGPALGAA GRPGP*LPSRGAGLGTA/GPPCL SLPPPPWVPVQPEPPRRAPPPAP RRVPSTAQGLRSASA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
27609	57977	A	27775	3	197	RPDAVPARSLEMKRFPMPPPP G*FSPGASLDVNP GCYKQAPSC SLAQILSNLSNLWSSAVSNF
27610	57978	A	27776	77	379	GRLLDKAGIPH/PPFSPGG LGCQ H*RRSPLHEHPSSGP\ PAGLKPS LSCLPAGQGS GPAARY/GLSLPP TPWAPVQPEPPRRAPPPAPGRS VPSTTQGLRSASA
27611	57979	A	27777	177	444	RGGQGS GPAACYA*/RLPPTPW APVRPEPPQRAPPPAPRRPVPS TQGLRSASTRRVTGRQLHLQP WCGIHWVKPAGLLSLVGRWRV LMS
27612	57980	A	27778	165	591	QRAGSPHSPRSL SAPPL/GLPLW RHLRSPSAHRCTVRAPFWAGQ GRSRLPQLAGRCGGRGASGNP G\SHGACGPAGVPGGRLGGPR TGSSQLALPAPGNEGLSTPASG RRKKLRTHPSIRRNKLQTRYLK SCNTHREGPRLH
27613	57981	A	27779	1	1605	
27614	57982	A	27780	2	1970	
27615	57983	A	27781	1	3522	
27616	57984	C	27782	183	254	
27617	57985	A	27783	39	346	QYISELQFLASTVRQTPAT'SPAH KNFQTPEPQQPGIPPEPPPGAC YKCWKS GHQAKECLQPGIPRK/ HASHLWQPLPEPPGT LAQGS LT DSFPDLLGLAAED
27618	57986	A	27784	1	354	
27619	57987	A	27785	72	299	
27620	57988	A	27786	273	530	LGSGDLPWGINPLSSCSLLREK DPLTISGPQTHQPKEHLTNFKSG PH*KSDCSTAPG\ATPRAPGT LA QGALTDSFPDLLSLAAED
27621	57989	A	27790	1	1068	
27622	57990	A	27791	148	527	
27623	57991	A	27792	2	1910	
27624	57992	A	27793	1	1047	
27625	57993	A	27794	96	488	WDRMAGGSSNTFGFPPPLPYR SCER*QRDGGPRSPGSLSVPPW PR/PPILAALEEFSPPLHRGRPS LGWPRPELAPSAQRSAAS/RPEA SKDHEPTRKKE/PTPDTQP*EL* HSLPRSSASLALGPHYLYEL
27626	57994	A	27795	3	2086	
27627	57995	A	27796	3	412	
27628	57996	A	27797	2	390	

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27629	57997	A	27798	1	629	MKVGLDQIIIEVVP SHSVTSGAA AGECGGVHCD SVCAEGRWGP N CSLPCYCKNGASCSPDDGICEC APGFRGTTCQRICSPGFYGHRC SQTCPQCVHSSGPCHHITGLCD CLPGFTGALCNE/RLFTVCPSGR FGKNCAGICTCTNNGTCNPIDR SCQCYPGWIGSDCSQPHCADKC VHGRCIAPNTCQCEPGWGGTN CSSVKKQSTVCEs
27630	57998	A	27799	108	1071	YPLFLSSISACDGDHWGPHCTS RCQCKNGALCN PITGACHCAA GFRGWRCEDRCEQGT YGNDCH QRCQCQNGATCDHVTGECRCP PGYTGAFCEDLCP PGKHGPQCE QRCPCQNGGVCHHVTGECSCP SGWMLSFP GWRPI*FSKSL*MQ GTVCGQPCPEGRFGKNCSQECQ CHNGGTCDAA TGQCHCSPGYT GERAAVPDVRK\ CQDECPVGTY GVLCAETCQC VNGGKCYHVSG ACLCEAGFAGERCEARLCPEGL YGIKCDKRCPC HLENTHSISLIA AKKSNSLHAIALDFRAQCQSVK DRCHASDLPIDIVSTETLR
27631	57999	A	27800	243	1296	ETQEESEFLPCGSHQPNG*LLF CSTYKRCLCNWGPC*AY*RACP CPALQQCPDI/CPQAQLAIPCAP QQQQLSRCLSFPSLLQDPNTP G/EYRKDEGRAGSRGAGEKQC THNSPRWLQNTVSNQGSSMPG FQSHVPSLLGAFVQCTNCTRVC SSPANKIFTTFR LGDPLVSPCHQ GFGSNTHCCVESWQSSCSGMH KDLGALHTPAPGSPTNVAATQ ARREPRCLAVLSTLDRSTRQK VNKDIQELNSALHQADLTDIYR TLHPKSTEYTF FSEPHRTYSKTD HLVGSKGLLSKCKRTEIITNCLS DHSAIKLELR IKLTQNCSTTW KLNNLLLNDY WVHNEMKAEID
27632	58000	A	27801	552	827	
27633	58001	A	27802	70	200	
27634	58002	A	27803	18	1057	
27635	58003	A	27804	652	960	
27636	58004	A	27805	1	474	
27637	58005	A	27806	1	140	
27638	58006	A	27807	1	1260	

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27639	58007	A	27808	126	893	EDGSGGGKFPEGARQGGTGQR RRRKAMRRTGAPAQADSRGRG RARGGCPGGEATLSQPPRGGT RGQEPQ\MKETIMNQEKTRHTC RHKVRIGGKGKTARKKKKVVHI TATA\DDKK\LQFLKGS*GVN NISGIE\EVNMFTNPRNKLIHF*Q PLKVQGISWAANTFHHLQGHA *DKSSWTEMLPSIFKPSLGAG*V *LVLRRLA\EALPQTNLWDGKS TTLLLGEDDGDDESSQILWEY FGWRVPRNEANLNLSTF
27640	58008	A	27809	180	589	KELPLLIFCRWQFESLHELNVPF FKVSGDNTNFPYLEKTAKKG SPNGDLPVGCKSNGHP*SKFIRS VKPLNPQLLASLQCTSAYPELQP EDVNLRVISVSRREGVPFLGHL LWGRRLFYNQNSNKHGILYN
27641	58009	A	27810	623	1082	
27642	58010	A	27811	548	645	
27643	58011	A	27812	329	510	
27644	58012	A	27813	3254	3628	
27645	58013	A	27814	1	960	
27646	58014	A	27815	349	681	PMASNRAITLTAWPKIPFLGICE AKNPRSENMR/AAHFGSGLPP SWELWEQGPPGNSSRYIEFLNK HTYIKGTLRVYTKKFCMLVIKS FESKSCVWRYDFDSKSSVNVTV
27647	58015	A	27816	240	473	
27648	58016	A	27817	825	1043	
27649	58017	A	27818	2	418	GKVVCFEAFLQQILGKHQFYW CLEGLGHCHHHIGAKYPEDIVD EESAQQDAASADIVEVQELYSI KGEQQAQKVVGNPVLPPQVVD ANDAAQAQAHQVLGVKFIIDD L*AERPGKSTP*GRATPPTFLVF PRTLCEGI
27650	58018	A	27819	2	427	
27651	58019	B	27820	51	672	
27652	58020	A	27821	43	667	
27653	58021	A	27822	516	1056	WSRAPAPQQCQHWLHPAGRTL HLRCLLGIWHQCDGDSGQVLR GTNENLVFPQDLLEKGLEANNF AMLGTWEMSSFPGIFIALLLRF DISLKKNTHTYFYTSFAAYIFGL GLTIFIMHIFKHAQL*GVKS*GS SGSDRIQRGNRGISIEGAGEERE MMQLVPEPLRARPDRWGLGPH RRA
27654	58022	A	27823	1	1019	
27655	58023	A	27824	1061	1258	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
27656	58024	A	27825	44	621	
27657	58025	A	27826	406	727	
27658	58026	A	27827	2	1337	
27659	58027	A	27828	1236	1391	
27660	58028	A	27829	228	502	
27661	58029	A	27830	1	1035	
27662	58030	A	27831	146	392	GHRSHQSPEETPNLIPRTPIPLG TGTSIRSTRIPRTEASGPNGLN WYLTPTPPGGQRPSSAASPRGF PPTNNSRLPAEPE
27663	58031	A	27832	15	300	
27664	58032	C	27833	289	414	
27665	58033	A	27834	3	576	AALAERWLGEVLVRVGVRVPG GSGGLRHWPCGLLGRGLGQA PEHKVRLSMEFCSTCTADHISLS SFWRSSFQQPLVPAVSLQSPDR RLSHDPAASSWSGFCGISPAFSA FSECSPSSLRSHPPALLQAAES* FAASSSPSPTWSLSGSGTRKPW S/VACNWLLSDSSSHRSFWES GIITMVLALTLEELV
27666	58034	A	27835	1	231	DELLVGGNPRGDAAEEGRCP GGVGVRVYQIQIWPRLCSRNP GAAD*GPGS*RWDRCPRDEIWR FLGALVGSVSSG
27667	58035	A	27836	18	398	KVRWERSWSESESESEGEGR AQALVPSVAS*/SSRPWDRPPST K*GCLWSSAARAQQTIYHSVPS GGHPSSSHWLPAVSLQSPDRRL SHDPAASSWSGFCGISPAFSAFS ECSPSSLRSHPPALGSF
27668	58036	A	27837	1059	1446	AVWSLPAPPAPCLLAGLLCTCC RTP*TASLCARGPVPRPRA*EAT RG TSA*ALHSPPGTLTPTVTRTS PSHLSARAAAPSHPARPTASRSS RLPAWLAVRLSIPPRRGS LGGA GAQAAAASTRFTCCS
27669	58037	A	27838	1	211	ATALAERWLGEVLVRVGVRVP CGEWRAQALVPIVAS*ATRPSG RGPPTQQT*RTSRIGRS*QTTMR HART
27670	58038	A	27839	316	537	
27671	58039	A	27840	255	475	RPWVRAPYKLLPALLHAPLCAP PSSPWRPV/PASAPSFKLLKS*IF CKQLSLLPTWSLSGSGTRKPWS GPVTGS
27672	58040	A	27841	622	1127	
27673	58041	A	27842	364	666	

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27674	58042	A	27843	37	299	ILLCSVQTLPLLRREFYGHIPKC QQSLNHCSPSSLRIPGFLHRNRL STPFHVQQPQREHF*YCRSQIH GENSAWHIRSHHAEKAHF
27675	58043	A	27844	84	428	PAEIERSTAKTPGPPGSLEMGLL TFRDVAIEFSLEEWQCLDTAQR NLYKNVILENYRNLVFLGIAVS KQDLITCLEQEKEPLTVKRHEM VNEPTGPRQKRRVTSSR**MKR YVII
27676	58044	A	27845	1	719	
27677	58045	A	27846	669	830	CLVQNQNIFC*ILS*WSSLV*QS ACRQLMPLLHLPNDQQAPVWT ENQPGGHW
27678	58046	A	27847	223	382	CLVQNQNIFC*ILS*WSSLV*QS ACRQLMPLLHLPNDQQAPVWT ENQPGGHW
27679	58047	B	27848	1	491	
27680	58048	A	27849	1	1113	
27681	58049	A	27850	505	1105	ITCTLYPSLRIVYEAFPATGDNM FRRIKDALFRTIQFCQIMNRSQ YMFTCRCRTEMQVPQHRRKKT FKPTVLLNHFVMEIIVLTAGRID AAFQDEVAASEGFLKQPVGKD YKFGGPSVKDEKLFVGVTGMG HHN*LSV*TSIQHLLSNTQG/CL RVC PALRL/HSRNL SAMVISFSF SCGARS AISPINARKRWAS PVC
27682	58050	A	27851	1	2697	
27683	58051	A	27852	1	1998	
27684	58052	A	27853	864	1025	CLVQNQNIFC*ILS*WSSLV*QS ACRQLMPLLHLPNDQQAPVWT ENQPGGHW
27685	58053	A	27854	1605	1766	CLVQNQNIFC*ILS*WSSLV*QS ACRQLMPLLHLPNDQQAPVWT ENQPGGHW
27686	58054	A	27855	677	735	
27687	58055	A	27856	1126	1568	SSSSTGRSRHKEVSPGCQQDGL RCQEWWSVRPG\YEATGGVWG KQLGIPASGLPGRRSSES PRKSC TPVTSRTGLPVC PWAAALSPESR SFSLSVRPVCVC\CVG TKMSCA PECCFFLVLSLLSLFLRLLLGL AAHCQFFPAVPLCIL
27688	58056	A	27857	1142	2450	
27689	58057	A	27858	1	1131	
27690	58058	A	27859	229	402	
27691	58059	A	27860	505	597	
27692	58060	A	27861	1	657	
27693	58061	A	27862	248	382	QPPKITLLYQQW IQTKKKSLKS FLP*QEFRKMQKKHSTKSSITL

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27694	58062	A	27863	1	1341	
27695	58063	A	27864	1	739	MGDFNTLLSALDRSTRQKVNK DIQELNSALHQADLIDIYRTLHP KSTEYTFFSAPHRITYSKIDHLV GSKALLRKCKRTEIITNCLSDHS AIKLELRIKKLTQNHSTTWQLN NLLLNDYWVHNEMKAEIKMFF ETNENKDDTTYQNLWYVKDTRI SGMLWYVKA VCRGKFIALNAH KRKQERSKIDTLTSQLELEKQ EQTHSKTSRRQEITKIRAELEI ETQKTLQKINECRSWFFEKINKI DRPLARLIKKKREKNQIDAIGN DKGDIITDPTEIQTITREYYKHL YGNKLENL*H*MPTRESRKDLK LTP*HHN*KN*RSKSKHIQKLAE GKK*LRSEQN*RK*RHKKPFKK SMNAGAGFLKRSTKLIDR
27696	58064	A	27865	1	1920	
27697	58065	A	27866	444	763	
27698	58066	A	27867	1	651	
27699	58067	A	27868	94	964	VNADWVLQRELEQTSWSSKQ RACCLSHVVGLRMISSCTTRKM AEEEQRKIPLVPENLLKKRKAY QALKATQAKQALFGKEGAEER KRAQ/WFKRLESFLHDSLAAET *QG/RISRQLEVQPHALELPDKC SLAFVVRIDRIDGGSLLVQRTIA RLCLKKIFSGVFVKA PPRIQKW LRIVEPYVTWGFPNLKSVRELIL KRGQAKVKNKTIPLTDITVME EHLGKFGVICLEDLIHEIAFPKG HFQEISWVLRPFHLSVAHHATK NRVGFLKEMGTLGYRGERINQ LIRQLN
27700	58068	A	27869	176	334	
27701	58069	A	27870	3	452	AASTGGGSHLLLSIMAALRPLV KPKIVKKRTKKFIRHQSDRYVK IKRNWRKPRGIDNRVRRRFKGO ILMPNIGYGSNKKTKHMLPSGF RKFLVHNVKELEVLLMCNKS CAEIAHNVSSKNRKAIVERA\A QLAIRVTNPNARLRSEENE
27702	58070	A	27871	2	423	
27703	58071	B	27872	193	1698	

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27704	58072	A	27873	263	714	KLVNPIIKATNTIMNMTMNLK MSLTAPPSDICRGPKLSFAGKIQ AIEPKLKTATAQRPLDTIGLEV PVPAAWLLSAVRNCSKLRATS GPNLDTMNGSRRQTGSWTEGS RSSMKPHLLSDITGALR/SPKVS *AFCRLATWPFNQLQSGILS
27705	58073	A	27874	347	902	
27706	58074	A	27875	17	1178	
27707	58075	A	27876	1	1155	
27708	58076	A	27877	3	1109	EKETMQSLNDRLASYLDRVRS LETENRRLESKIREHLEKKGPO VRDWSHYFKIHEDLRAQIFANT VDNARIVLQIDNARLAADDFRV KYETELAMRQSVENDIHGLRK VIDDTNITRLQLETEIEA\KEEL LFMCKKNHEE\EVKGLKTPNYA ALG*TV\VDAP\KSQDLAKIM ADIR\AQ\YDELGSETERKLDK YWSQQIEESTTVFTTQSA\EVGA AETNLHRSCLKRTV\QSLED RPW TSMRNLKAQLGEQP*GEVEAPL RPTRWSQLNGILLHLES\ELAQT \RAEGQRQA\QEYEALLNIKVKL \EAEIATYRRLLEDGEDFNLDG ALDSSNSMQTIQKTTTRRIVDG KVVSETNDTKVLEALSQQKAG
27709	58077	A	27878	1	1305	
27710	58078	A	27879	209	560	
27711	58079	A	27880	219	512	
27712	58080	A	27881	528	803	
27713	58081	A	27882	3	432	SSPCVEFSTSMGACLRPATARSP SATCTAWTCTGWRRGRPWWR WTPENSGVAGGDGTSEEDSEE VEGAEWGRRRRRQRRGERCG GLRRAPCQGAPGKCLCPRPP\GP SPC*/CEALGAQRAS*PHRRELK VGGPGPGCELSMPV
27714	58082	A	27883	117	483	
27715	58083	A	27884	1	1497	
27716	58084	A	27885	228	776	
27717	58085	A	27886	1012	1677	
27718	58086	A	27887	194	562	
27719	58087	A	27888	1	423	
27720	58088	A	27889	232	308	
27721	58089	A	27890	1	1692	
27722	58090	A	27891	186	2191	
27723	58091	A	27892	2	141	
27724	58092	A	27893	1	1692	

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27725	58093	A	27894	186	2192	QRRPRPFPSQGISMTECFLPPTSS PSEHRRVEHGSLTRTPSSEEIS PTKFPGLYRTGEPSPPHDILHEP PDVVSDDKDHGKKKGKFKKK EKRTGYAAFQEDSSGDEAESP SKMKRSKGIHVFKKPSFSKKKE KDFKIKEKPKEEKHKEEKHKEE KHKEKSKDLTAADVVKQWK EKKKKKKPIQEPEVPQIDVNL KPIFGIPLADAVERTMMYDGIR LPAVFRECIDYVEKYGMKCEGI YRVSGIKSKVDELKAAAYDREES TNLEDYEPNTVASLLKQYLRDL PENLLTKELMPRFEEACGRTE TEKVQEFQRLKELPECNYLLIS WLIVHMDHVIAKELETKMNIQ NISIVLSPTVQISNRVLYVFFTH VQELFGNVVLKQVMKPLRWSN MATMPTLPETQAGIKEEIRRQE FLLNCLHRDLQGGIKDLSKEER LWEVQRILTALKRKLREAKRQ ECETKIAQEIASLSKEDVSKEEM NENEEVINILLAQENEILTEQEE LLAMEQFLRRQIASEKEEIERLR AEIAEIQSRQQHGRSETEEYSSE SESESEDEEELQIILEDLQRQNE ELEIKNNHLNQAIIHEEREAIHEL RVQLRLLQMQRAKAEQQAQE DEEPEWRGGA VQPPRDGVLEP KAAKEQPKAGKEPAKPSPSRDR
27726	58094	A	27895	12	413	PSRAPGLQKACTGHEGMAVHP PRIPVQSDHLISIEGLLCKLPCA GQVTKESGLVSFSLRPVLPQNT LSNSFYLFPPGYASPYVETFLPG AHSGPAPPGLPVRTPTAKRL/G VAVAPSPTF*ISPRALRSTFVSN
27727	58095	A	27896	1	361	
27728	58096	A	27897	2	162	
27729	58097	A	27898	248	381	
27730	58098	A	27899	73	254	
27731	58099	A	27900	1	729	
27732	58100	A	27901	1	762	
27733	58101	A	27902	2	334	
27734	58102	A	27903	3	369	
27735	58103	A	27904	669	1006	
27736	58104	A	27905	3	250	
27737	58105	A	27906	721	876	
27738	58106	A	27907	3887	4013	
27739	58107	A	27908	3423	3627	

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27740	58108	A	27909	3	226	HETGCCGQAAERDSCWERPPIP LLPSLSGDYETVRNGGLIFAG LAFIVGL\ILLSRRFRCGGTKKR RRINEDEP
27741	58109	A	27910	67	264	
27742	58110	A	27911	161	851	
27743	58111	A	27912	139	351	GGRRIETGGWERPPIPLLLPSLS GDYETVR\NGGL\IFAGLAFIVG\ LLILL\SRFRFCGGNKKRRQINE
27744	58112	A	27913	2	431	
27745	58113	A	27914	217	289	
27746	58114	A	27915	255	389	KPNACSHS*VGTEQ*EHMDTG RGTSHTGACREALDRGPAWEK L
27747	58115	A	27916	14	460	NCLTRRRRRRRRTFLEEERLKP SRKKITKKHTKKRTASLILHAM ICCRSLNSSKTKNTKCLNSINQR LKILSLQKDLMTAGRCKTLT EQ*LNTTATLCLLLREARKTL MTHQSTWTWMKLETHLSKLTQ EQKTKQRMFSLISGS
27748	58116	A	27917	503	1046	
27749	58117	A	27918	3	198	
27750	58118	A	27919	54	320	
27751	58119	A	27920	443	477	
27752	58120	A	27921	1	963	
27753	58121	A	27922	1	2292	
27754	58122	A	27923	3	736	SCCLHSRLVRARRLRRAVAVM AAQCVRLARRSLPALASVRPI FPGLLCTATK\QRTSAKNLKG MGQSEQRADPPATEKTLL\EEK VKL\EEQLKETV\EKYKRALA\D TEELTGRGSQNLLREAKLLRHF KPFCKDLLEVADV\LEKATQCV PK\EEIKDDNPHLKNPLWRGL\V MTEVQIQKVFTKHGLLKLNPV GAKFDPYEHEALFHTPVEGKEP GTVALVSKVG\YKLHG\RTLRLP ALVGVVKEA
27755	58123	A	27924	253	363	
27756	58124	A	27925	235	318	
27757	58125	A	27926	1	426	
27758	58126	A	27927	146	254	
27759	58127	A	27928	1	1401	
27760	58128	A	27929	61	457	LESTLATAERFLIPSPSTGN*L VCFCTT*GQECYSVTRFSLGYG SPGCLYA*SSLIPCWRWGTPRL CCEKPTTFHCLRFVSPSKLAVS RWHIPLGSEEKRRSMSAGTISL HFIWMKSPTRTSFQHFTCT
27761	58129	A	27930	1	567	

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27762	58130	A	27931	128	586	
27763	58131	A	27932	271	465	HLTRPGTLLRQNFQRNDQAAT LAVHQYPLLCSNRC/CIPRQT/W VWSGPPANSNRPAAE GPDC*KE N
27764	58132	A	27933	1	375	MQKSPIFCVAHAGSCRLELFLF GHLGGHHPDTKPGRDTRKDN FRPISLMNIDAKILNKILANRIQ QHIKKLIHRDQVGFISGVQGW NIRKSINVIQHINRTKDKNHMII SIDAEKAFDKIQGGFMLKILNK LGIDGMYLKIIIRAIYDKPTAKIIL NGQKLEVFPLKTGTRQRCPLSP LLFNIELEVLAIRQEKEIKGI QLGKEEVKLSLFAHDMIVYLEN PIVSPQNLLKLISNFSKVS GYKI NVQNSQAFLYSNNRQT*AIAGA PPPASLPPCSLISDCCASNE*GSV GIGPSKPGAGYNLLCHLISPSIS PTSSPKSDTCPIADFSNKSPDRSS AGDILLAMQSLGSMIAFTILILP THEHGMFFHLFVSSFISLSSGL
27765	58133	A	27934	1	1059	
27766	58134	A	27935	1	533	LSKQGHNLNQRFLLPFG\C*CLP LRGGVYRGRQ\ASLSCGGLHP V*AS\RQLCLPTQALA\MAGTPP PASLPPCSLISDCCASNERGSVG MGPSEPRCGNNLVVC\RFLSL SEKRSSIRVGVTRFSRCHLSQL CLATKGNLTPCTSQVRRCLTL LQLTLGAMQPLSCGLPTLSDKP
27767	58135	A	27936	140	426	
27768	58136	A	27937	1	918	
27769	58137	A	27938	54	102	
27770	58138	C	27939	244	462	
27771	58139	A	27940	234	282	
27772	58140	A	27941	328	1212	
27773	58141	B	27942	245	338	
27774	58142	A	27943	483	635	
27775	58143	A	27944	9882	10134	
27776	58144	A	27945	2	370	
27777	58145	A	27946	1682	1945	
27778	58146	A	27947	1172	1732	ESTAAEADTRFGCSWAVWAVE AEGEDCCCCCCCCCCCCCCCC CCCCCCCCCCCCCLPPSAGGRGP SGSARYFALIDAAQREDGGDA YRVGLAAALEVNAAETVACGG LEGGEAPTDA GTRYVLEPEAPQ LSVLWKRVEVQRLVPVRVVVA AWHAARKARAWLRRARP GP PASCALRRPSGYAAARN

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
27779	58147	A	27948	272	393	
27780	58148	A	27949	333	622	
27781	58149	A	27950	11	1850	
27782	58150	A	27951	1	1107	
27783	58151	A	27952	1	1348	
27784	58152	A	27953	3	431	KLQNELLLLHVSHPGHADAKG GFPWP*AAPPLWLCRVQPSFWL LSWAGIEGLWLFHTHDTSCQWI YHSGVALADVLHESPALQQTS VWTSRSFHTSSEIQAEVPKPQLL TSVHAQAQYSMEAPKAWGLYP LKPWPPELYLGP
27785	58153	A	27954	364	1117	EGHRAEQCTGSVLLTSSIGR SGKQSSGCHFWLLQHQICTCPS RVMGPRKKHRPTARGSRPPQPL PSGFPSAGAMGQVHCLAAPHS LERVRNPRQTQ/PPGWEG/PPTR ANLALLTPPAATATNSSIPDSP PGSDGSVPAGLTTWLAVLTD CPKAFGKVASQACLLWKGEQP PKTPPVTPSRVSLLASEPNTIRL KNVFPRVFPACTWKSHRHSTPA HESSQKGLYPAKPQGWSCPRL WEPTSCISVTWM
27786	58154	A	27955	1	224	QWRHCNRSLLPVQKGSGALEG IGPPRVF\PE*RAFGGQRAPPDI P\PPSPRHPTKDRRTAARSGPRR KRGQTNE
27787	58155	A	27956	681	879	LQISHPGHADASGGFPWPWAA PPLWLCRVQSPS*LLSQPGVECP QLFQAHSASRHLNSMRPQMNS S
27788	58156	A	27957	835	1482	
27789	58157	A	27959	1	522	
27790	58158	A	27960	2	396	
27791	58159	A	27961	1	1501	
27792	58160	A	27962	473	860	
27793	58161	A	27963	370	3675	
27794	58162	A	27964	52	117	
27795	58163	A	27965	3	290	PRKTVQFGGTVTEVLLKYKTG ETNDFELLKNQLLDPAIRDD\QII NWLLEFRSSVMYLT\KDFE\QLI SIILRLPWLNRSQ\TVVEEYLAF LGNLVSA
27796	58164	A	27966	1	2988	
27797	58165	A	27967	1	666	
27798	58166	A	27968	274	930	
27799	58167	C	27969	13	231	
27800	58168	A	27970	46	386	
27801	58169	A	27971	3	451	
27802	58170	A	27972	160	494	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
27803	58171	A	27973	1	2406	
27804	58172	A	27974	201	1069	
27805	58173	A	27975	450	647	
27806	58174	A	27976	329	697	
27807	58175	A	27977	141	1506	
27808	58176	A	27978	1	1773	
27809	58177	A	27979	3	460	PHRVMGVPISRGTL*SVFP*PS* CTTWPGSLGSCCTACQVRCQPQ APHQP*APPERTTSAPAAQSPSR SSLWVTAPLVSACTCSPATHP TRSQMPSTHTPCCRGSSPRPRGS PSWTRTWTTCPKASKADPKAP WPCSLMPFYAQTQTLGET
27810	58178	A	27980	1	1803	MGKDFMSKTPKAMATKAKIDK WDLIKLKSFACTAKETTIRVNRE PTKWEKIFTTYSSDKGLISRIYN VLKQIYKKKTNNPIKKWVKDM NRHFSKEDIYAARKHMKKCS SLAIGEMQIKTTKKLMLYDV RICHDSHKELEQKLAFLGMED AILYSSCFDANGGLFETLLGAE DAIISDALNHASIIDGVRLCKAK RYRYANNDMQELEAAAYRRSTR PLSTRLFSFRSRVLTEFRVCPL VHTTWGGNLMRLSARSLWQR AAVNIPKLEGIIIEY/ALLV/WR AML/TEVNLSPNGLVDRINFG AHKDMALEDHFHRSALAIQGWL PRFIEFGACSAEMAPEAVLHGL RPIGMACEGDMFRATAGVNTH KGSIFSLGLLCAAIGRLLQLNQP VTPTTVCSTAASFCRGLTDREL RTNNSQLTAGQRLYQQLGLTG ARGEAEAGYPLVINHALPHYLT LLDQGLDPELALLDTLLLLMAI NGDTNVASRGGEGLRWLQRE AQTLQKGGIRTPADLDYLRQF DRDTSQGSSRVDCSVWELCRA GRTAGVMVAAKTKNAGKWH NHIIRRFDPGDRLYDQGGRA HHPFAGTHHQYYRHRSRR
27811	58179	A	27981	1	1974	
27812	58180	A	27982	344	508	
27813	58181	A	27983	3	492	
27814	58182	A	27984	65	261	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
27815	58183	A	27985	3	529	DAWAFHKMAPKAKNEAPAPP KA\EAkakGF*RAKKGsf*KVS HSH\KKKKIPHVHPTFRAGRPL R\LRQP\KYPsGRALPWRNK\L DHLCLSIKfPLTH*VLPMKKIE DN\NTLVFIVDVKANKHQIKQA VKKL\YDI\DVAKVNT/LWIRPD GEKNGICSDLAP\DYDA\LDVA NKIGII
27816	58184	A	27986	105	241	PFFFFEMESPSVAQAVfSLVFRS PHCGGIQAHLfNL*RDLFKIWT
27817	58185	C	27987	175	363	
27818	58186	A	27988	724	958	
27819	58187	A	27989	3	823	
27820	58188	A	27990	1	877	
27821	58189	A	27991	487	786	
27822	58190	A	27992	147	623	RSaVANGLTkRRMGLKLNGRY ISLILAVQIAYL\VQAVRAAGKC DA\VFkGFsGLfCSSLGDtMAQ LPAGPGDDKTNIKT\ACTYWGg ISHSCT\VTALTDCQEGAKNMW DKLRKESKLNLIQGSfLFCGN GNGAAGSLLPGFPVLLVSLsAA LTTWLSf
27823	58191	A	27993	213	579	ASLLLLaFLaELASLKAGLQKS REYSCSSfISSLSSTDAHCVLSE YARPLS/QRPAPNGSSPRCQASE AQSPGHRPPPLfSSPLAALQLD SHRFPSDPNGKDESrPPRLCTKL GRGCAGCGK
27824	58192	A	27994	1	800	
27825	58193	B	27995	54	165	
27826	58194	A	27996	46	313	
27827	58195	C	27997	30	151	
27828	58196	A	27998	169	1173	
27829	58197	A	27999	456	651	
27830	58198	A	28000	487	833	RNKfCDDQTEGNKIKNRREEK HRCRGQSKLNIIDNVVKAVNG GKSQREQAefADCITfGIRHNTS PKMSRVrGGG/TTPWAVLGMA EASSSLQSSSQNPgQAGWQTGP WVVSLGC
27831	58199	B	28001	1	2268	
27832	58200	A	28002	1	639	